



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

The Airolite Company, LLC
P.O. Box 410
Schofield, WI 54476

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Model K605MD Aluminum Louver

APPROVAL DOCUMENT: Drawing No. **K605MD**, titled "K605MD Louver", sheets 1 through 16 of 16, dated 04/27/2009, prepared by The Airolite Company, LLC, signed and sealed by Chander P. Nangia, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises** NOA # **14-0624.17** and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



[Signature]
06/02/2016

NOA No. 16-0201.17
Expiration Date: August 5, 2019
Approval Date: June 9, 2016
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS “Submitted under NOA # 09-0519.15”

1. Drawing No. **K605MD**, titled “K605MD Louver”, sheets 1 through 16 of 16, dated 04/27/2009, prepared by The Airolite Company, LLC, signed and sealed by Chander P. Nangia, P.E.

B. TESTS “Submitted under NOA # 09-0519.15”

1. Test report on 1) Uniform Static Air Pressure Test per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94,
3) Cyclic Wind Pressure Test per FBC, TAS 203-94,
along with marked-up drawings and installation diagram of Model ESS-502D fixed aluminum louvers, prepared by Architectural Testing, Inc., Test Report No. **89882.01-602-18**, dated 04/30/2009, signed and sealed by Joseph A. Reed, P.E.

C. CALCULATIONS “Submitted under NOA # 09-0519.15”

1. Structural load calculations, prepared by Greenheck Fan Corporation, dated 04/14/2009, signed and sealed by Chander P. Nangia, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code compliance to the 5th edition (2014) FBC issued by Chander P. Nangia, P.E., dated 01/11/2016, signed and sealed by Chander P. Nangia, P.E.

“Submitted under NOA # 14-0624.17”

2. Statement letter of code compliance to 2010 FBC issued by Chander P. Nangia, P.E., dated 06/19/2014, signed and sealed by Chander P. Nangia, P.E.

“Submitted under NOA # 09-0519.15”

3. No financial interest letter issued by Chander P. Nangia, P.E., dated 04/27/2009, signed and sealed by Chander P. Nangia, P.E.



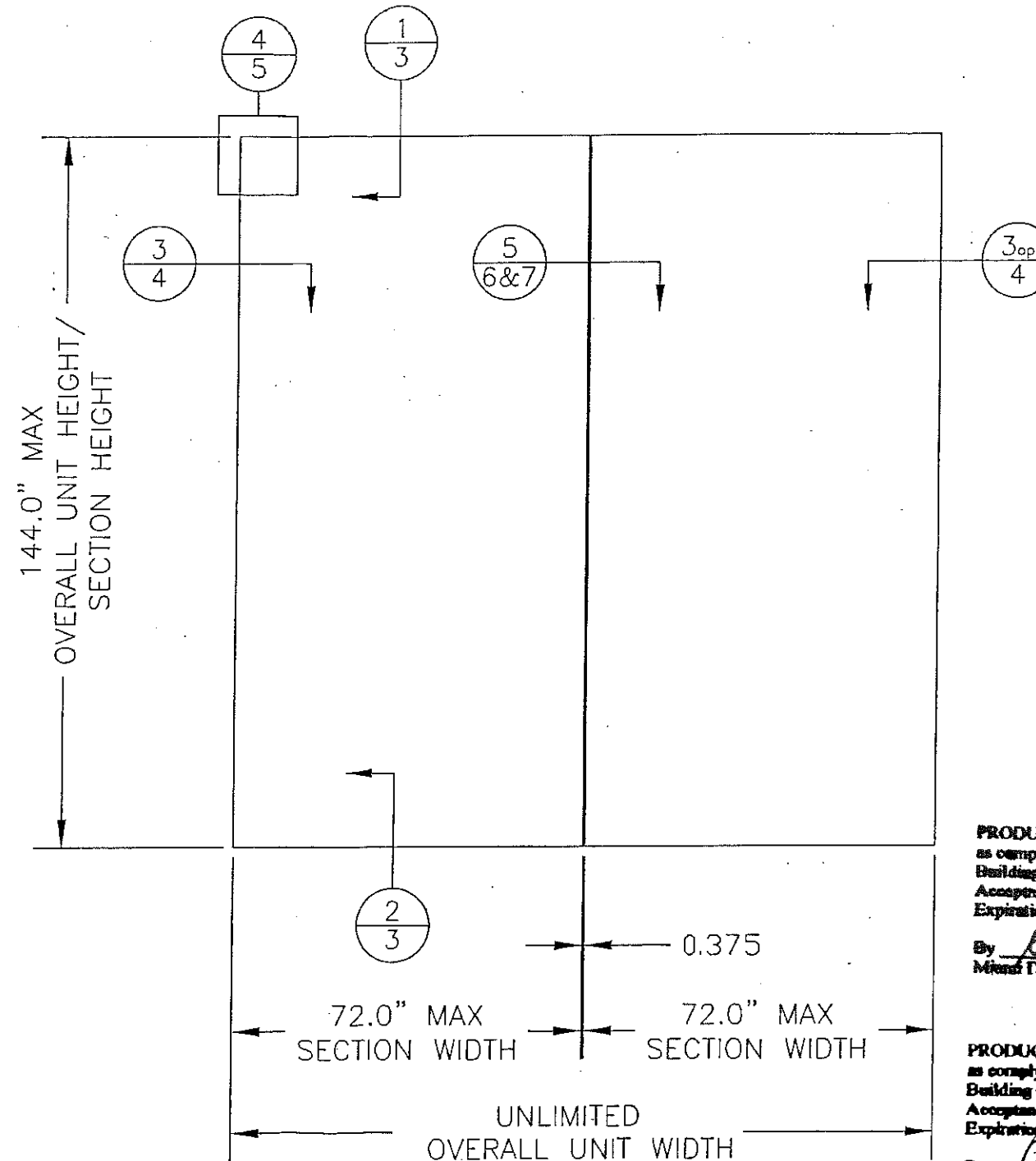
06/02/2016

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 16-0201.17
Expiration Date: August 5, 2019
Approval Date: June 9, 2016

DETAIL #
PAGE #

DETAIL CALLOUT (TYPICAL)

1 LOUVER ELEV.
SHORT LOUVER LAYOUT



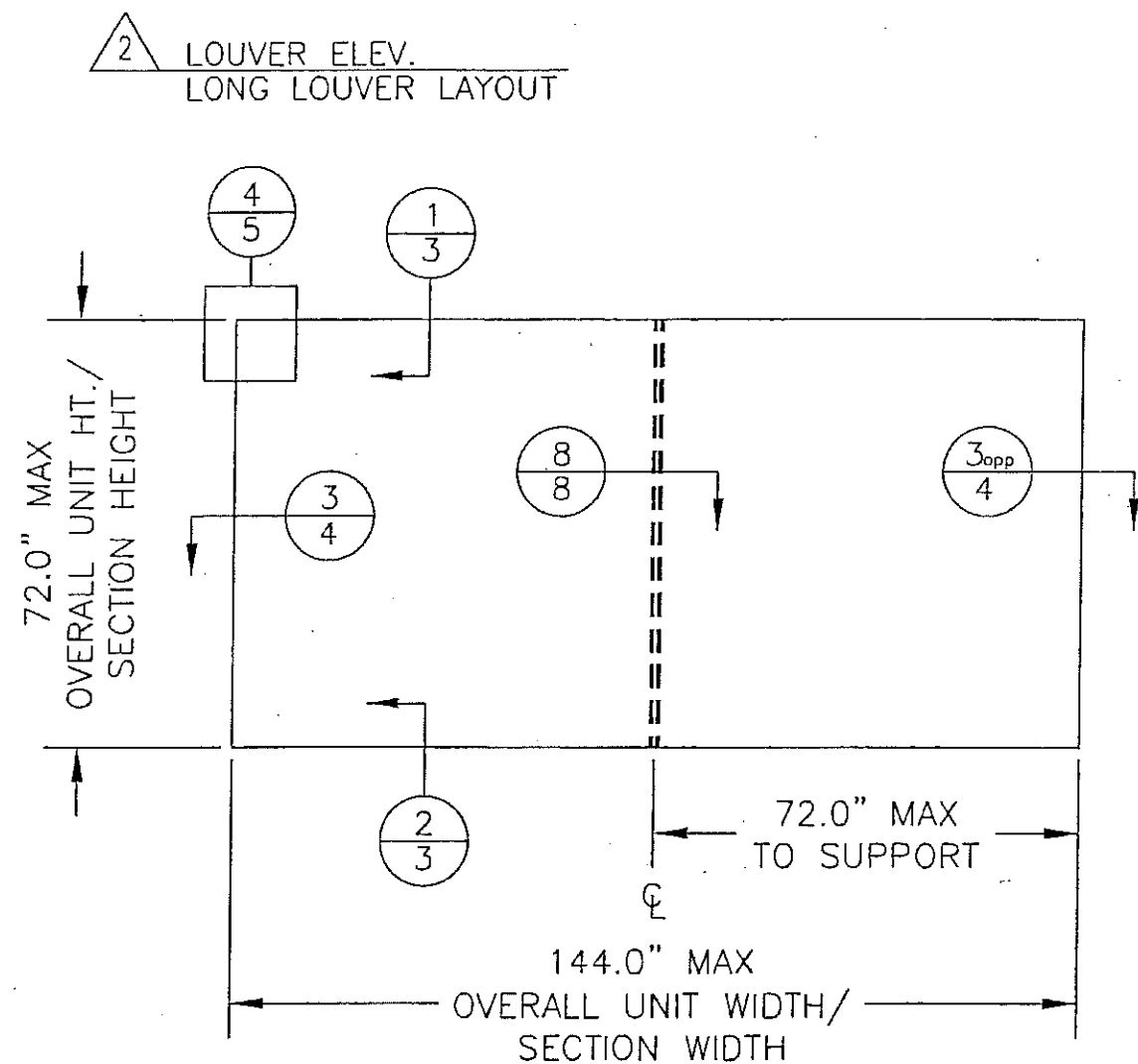
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 16-0201.17
Expiration Date 08/05/2019
By *[Signature]*
Miami Trade Product Control

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 14-0624.17
Expiration Date 08/05/2019
By *[Signature]*
Miami Trade Product Control

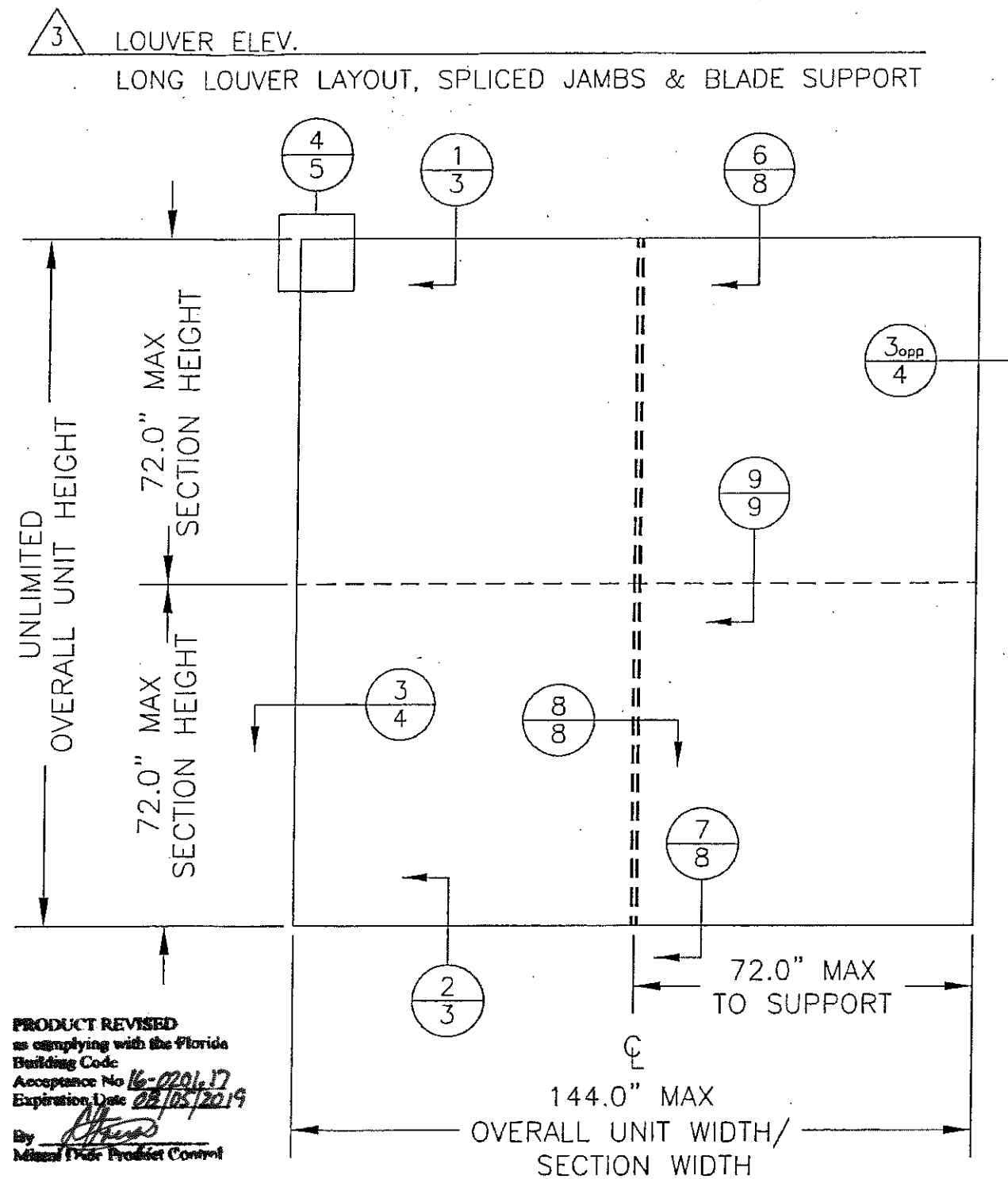
NOTE: MULLION REQUIRED ONLY IF BOTH OF
THE FOLLOWING ARE TRUE: OVERALL UNIT WIDTH
IS >72", AND SECTION HEIGHT IS >72"

CHANDER P. NANGIA PE
7423 HOLLOW RIDGE DR.
HOUSTON, TX 77095
FLORIDA PE # 21938

DRAWN BY M STEELE	DATE 4/27/09
	SCALE 3/8"=1'
SHEET NO. 1 OF 16	
CAD DRAWING NO. K605MD	
TITLE K605MD LOUVER	
SHORT LOUVER LAYOUT ELEVATION CONFIGURATION	
<i>[Signature]</i> MAY 12 2009	
Approved as complying with the Florida Building Code Date 08/05/2009 NOA# 14-0519.15 Miami Trade Product Control By <i>[Signature]</i>	



NOTE: BLADE SUPPORT REQUIRED ONLY IF SECTION WIDTH IS >72\".



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Expiration Date 08/05/2019
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Building Code
Acceptance No 14-0624.17
Expiration Date 08/05/2019
By [Signature]
Miami Dade Product Control

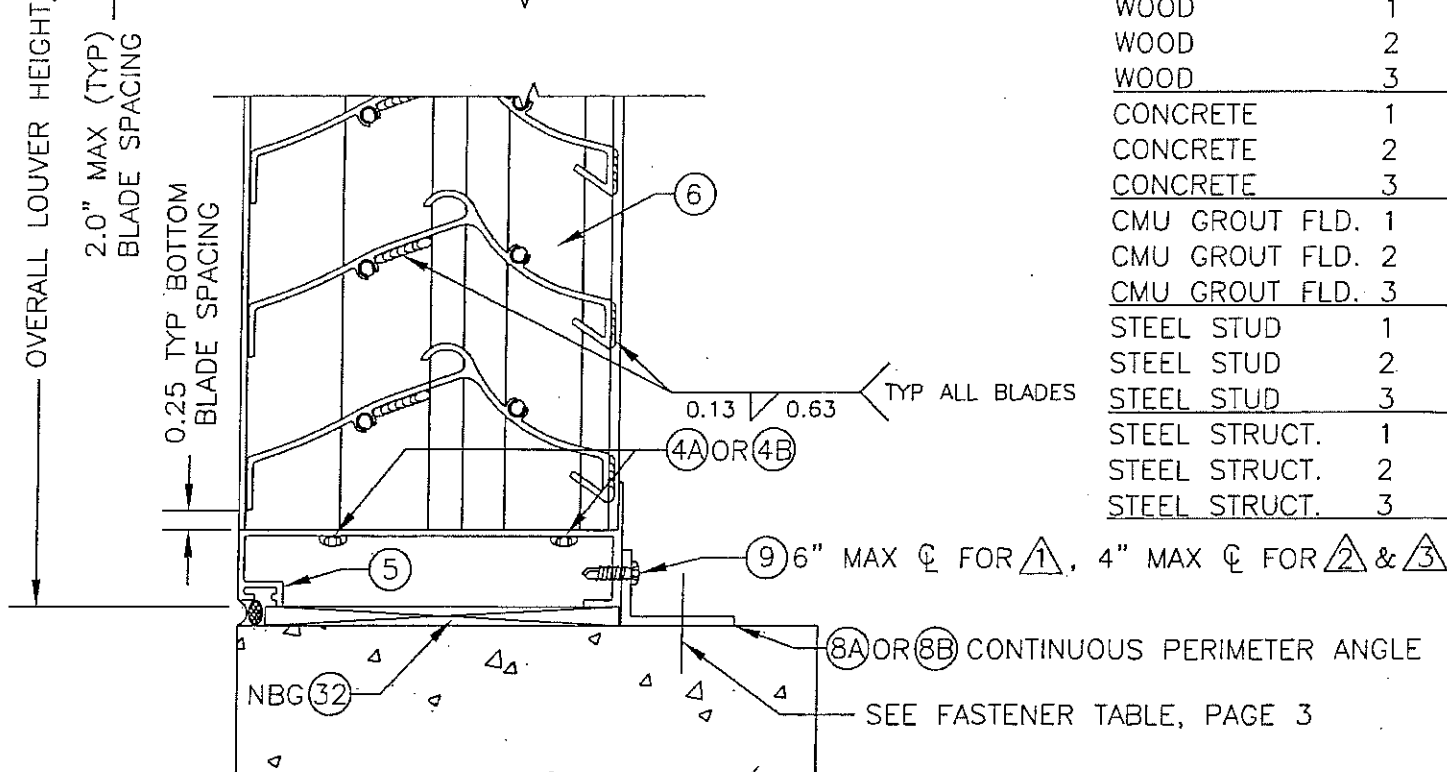
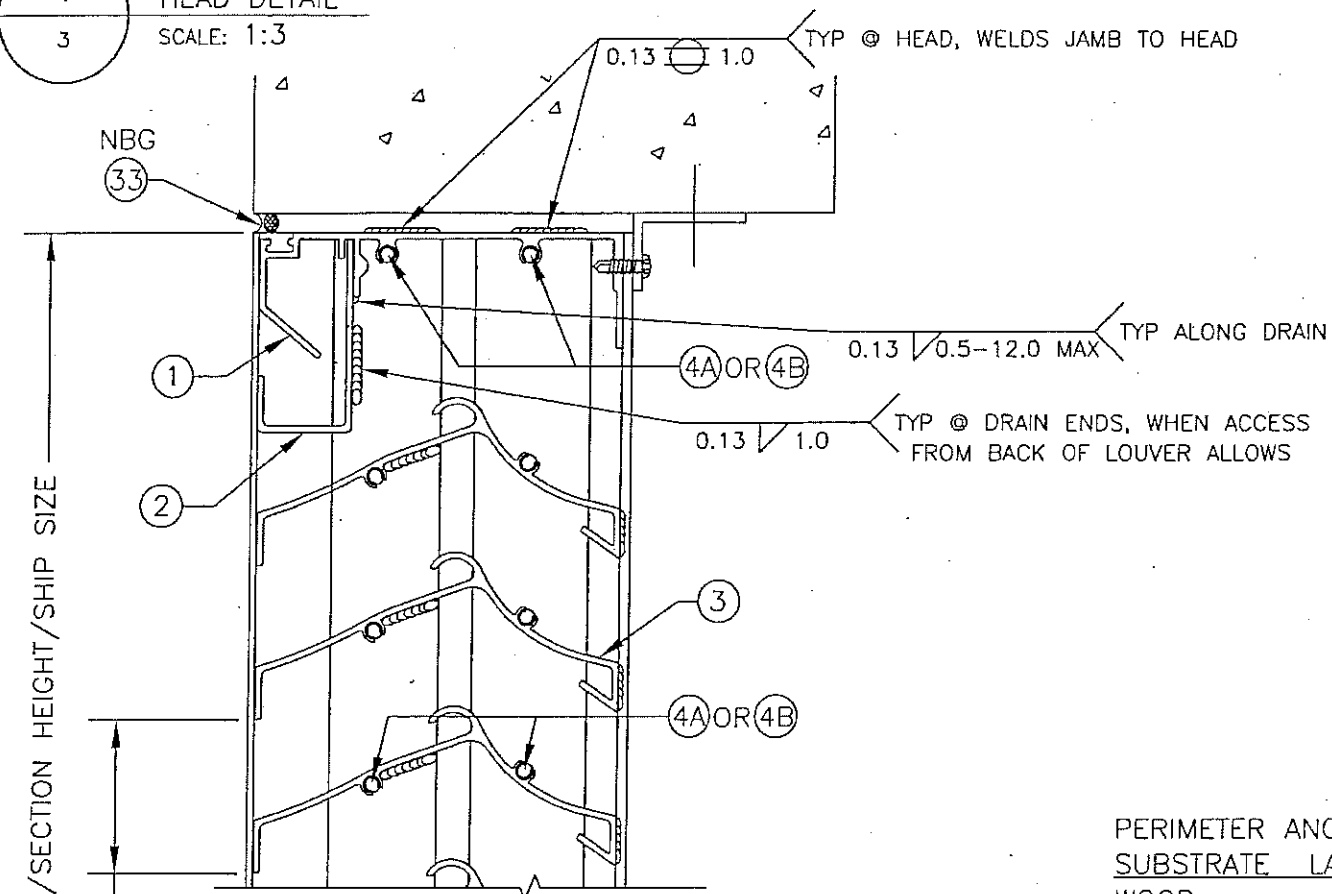
NOTE: BLADE SUPPORT REQUIRED ONLY IF SECTION WIDTH IS >72\".

CHANDER P. NANGIA, P.E.
7423 HOLLOW RIDGE DR.
HOUSTON, TX 77095
FLORIDA PE # 21938

AIROLITE The look that works. [™] SCHOFIELD, WISCONSIN 54476 715-359-6171	DRAWN BY M STEELE	DATE 4/27/09
	SCALE 3/8"=1'	SHEET NO. 2 OF 16
TITLE K605MD LOUVER		
LONG LOUVER LAYOUT ELEVATION CONFIGURATIONS		
MAY 12 2009 Approved as complying with the Florida Building Code Date <u>08/05/2009</u> NOAR <u>09-0517.15</u> Miami Dade Product Control Division <u>[Signature]</u> By <u>[Signature]</u>		

1
3

HEAD DETAIL
SCALE: 1:3



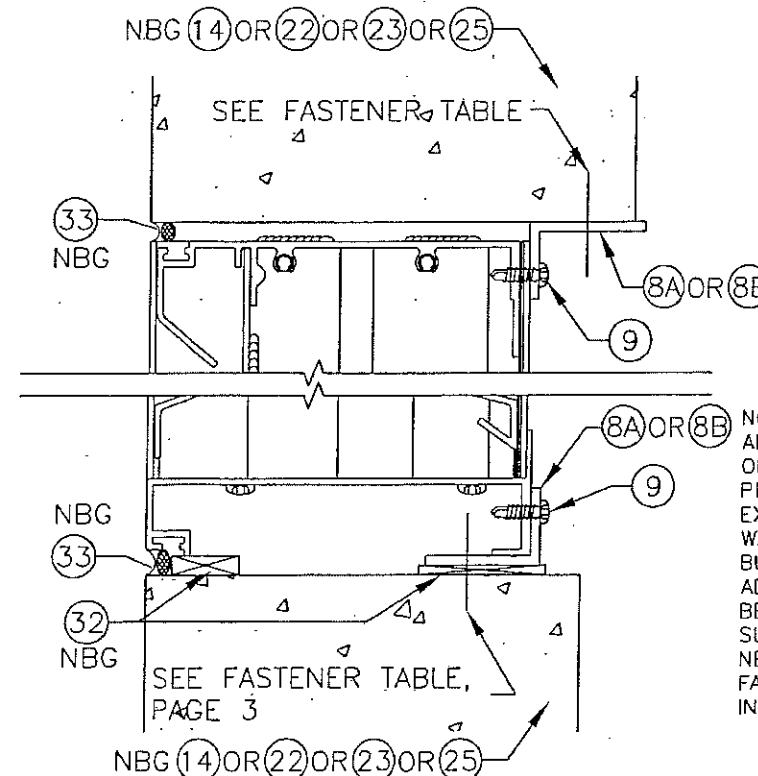
2
3

SILL DETAIL
SCALE: 1:3

NBG 14 OR 22 OR 23 OR 25

NOTE FOR CMU: BLOCK IS
GROUT FILLED AROUND
OPENING. (MIN 2000PSI)

OPTIONAL CONTINUOUS ANGLE CONFIGURATION,
FOR THIS PAGE ONLY



NOTE: CONTINUOUS PERIMETER
ANGLE MAY BE POSITIONED
ON JAMBS WITH ANGLE LEG
PROJECTED TOWARD
EXTERIOR OR INTERIOR OF
WALL. VALID FOR ALL
BUILDING SUBSTRATE TYPES.
ADDITIONAL SPACING
BETWEEN LOUVER AND
SUBSTRATE MAY BE
NECESSARY DUE TO
FASTENER HEAD-LOUVER
INSTALLATION CLEARANCE.

PERIMETER ANGLE SUBSTRATE FASTENER TABLE (FASTENERS NOT BY MANUFACTURER):

SUBSTRATE LAYOUT "A" MIN		FASTENER		SPACING & MIN EDGE DISTANCE	
WOOD	1	G=0.55	27	9" O.C. MAX, 1.5" MIN	WOOD EDGE DISTANCE
WOOD	2	G=0.55	27	4" O.C. MAX, 1.5" MIN	WOOD EDGE DISTANCE
WOOD	3	G=0.55	27	4" O.C. MAX, 1.5" MIN	WOOD EDGE DISTANCE
CONCRETE	1	2000PSI	21	6" O.C. MAX, 1.5" MIN	CONCRETE EDGE DISTANCE
CONCRETE	2	2000PSI	21	3" O.C. MAX, 1.5" MIN	CONCRETE EDGE DISTANCE
CONCRETE	3	2000PSI	21	3" O.C. MAX, 1.5" MIN	CONCRETE EDGE DISTANCE
CMU GROUT FLD.	1	2000PSI	21	6" O.C. MAX, 1.5" MIN	CMU EDGE DISTANCE
CMU GROUT FLD.	2	2000PSI	21	3" O.C. MAX, 1.5" MIN	CMU EDGE DISTANCE
CMU GROUT FLD.	3	2000PSI	21	3" O.C. MAX, 1.5" MIN	CMU EDGE DISTANCE
STEEL STUD	1	14GA	24	6" O.C. MAX, 0.5" MIN	STEEL EDGE DISTANCE
STEEL STUD	2	14GA	24	3" O.C. MAX, 0.5" MIN	STEEL EDGE DISTANCE
STEEL STUD	3	14GA	24	3" O.C. MAX, 0.5" MIN	STEEL EDGE DISTANCE
STEEL STRUCT.	1	0.375	24	6" O.C. MAX, 0.5" MIN	STEEL EDGE DISTANCE
STEEL STRUCT.	2	0.375	24	3" O.C. MAX, 0.5" MIN	STEEL EDGE DISTANCE
STEEL STRUCT.	3	0.375	24	3" O.C. MAX, 0.5" MIN	STEEL EDGE DISTANCE

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 16-0204.17
Expiration Date 08/05/2019
By *[Signature]*
Miami Dade Product Control

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 14-0624.17
Expiration Date 08/05/2019
By *[Signature]*
Miami Dade Product Control

CHANDER P. NANGIA, P.E.
7423 HOLLOW RIDGE DR.
HOUSTON, TX 77095
FLORIDA PE # 21938

DRAWN BY
M STEELE

DATE
4/27/09

SCALE
1:2.5

SHEET NO.
3 OF 16

CAD DRAWING NO.
K605MD

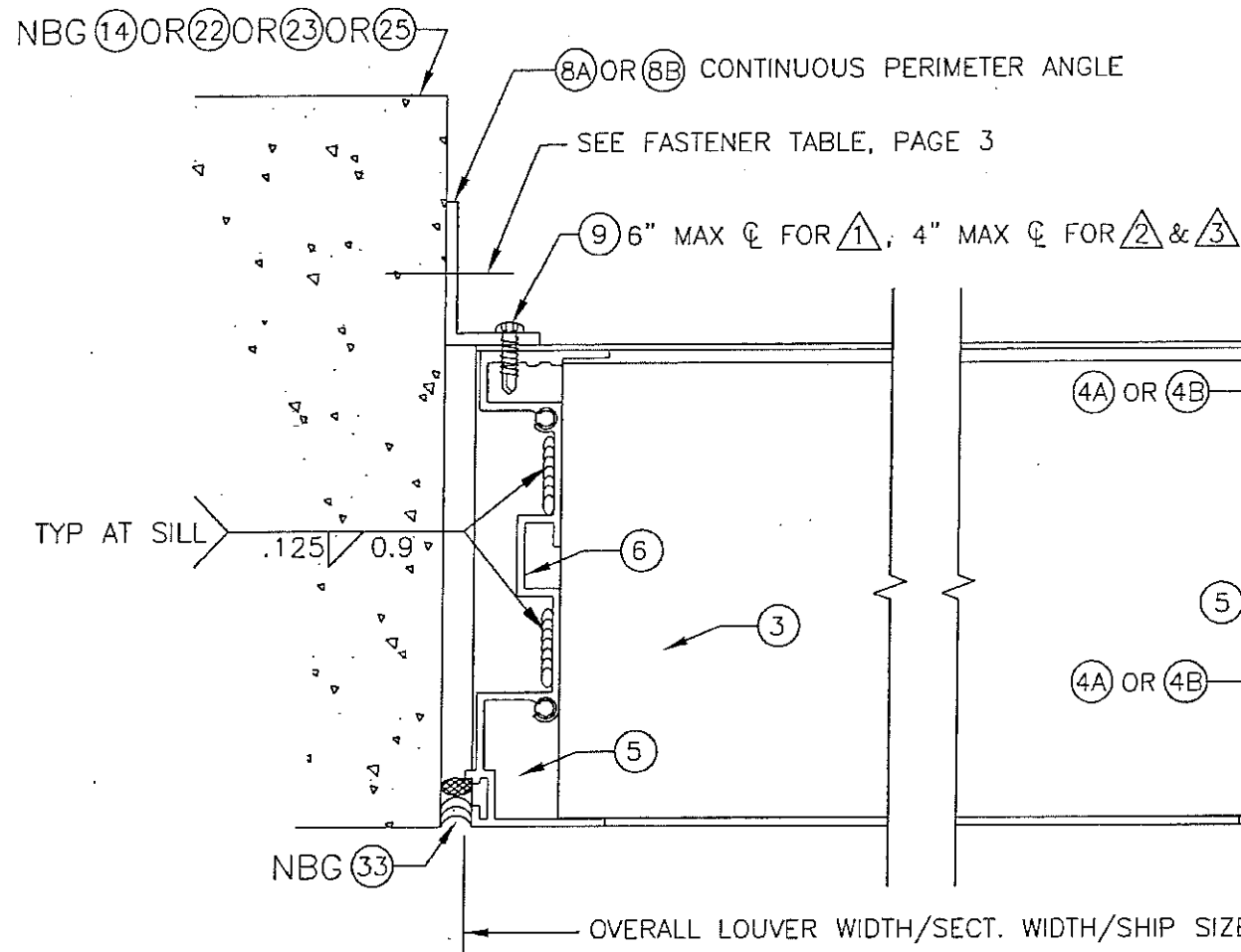
TITLE
K605MD LOUVER

DETAILS - HEAD/SILL

[Signature]

MAY 12 2009

Approved as complying with the
Florida Building Code
Date 08/05/2009
NOA# 08-0519.15
Miami Dade Product Control
Division *[Signature]*



NBG=NOT BY MANUFACTURER

3 JAMB DETAIL
4 SCALE: 1:2
SEE "3 ISO" FOR ISOMETRIC DETAIL

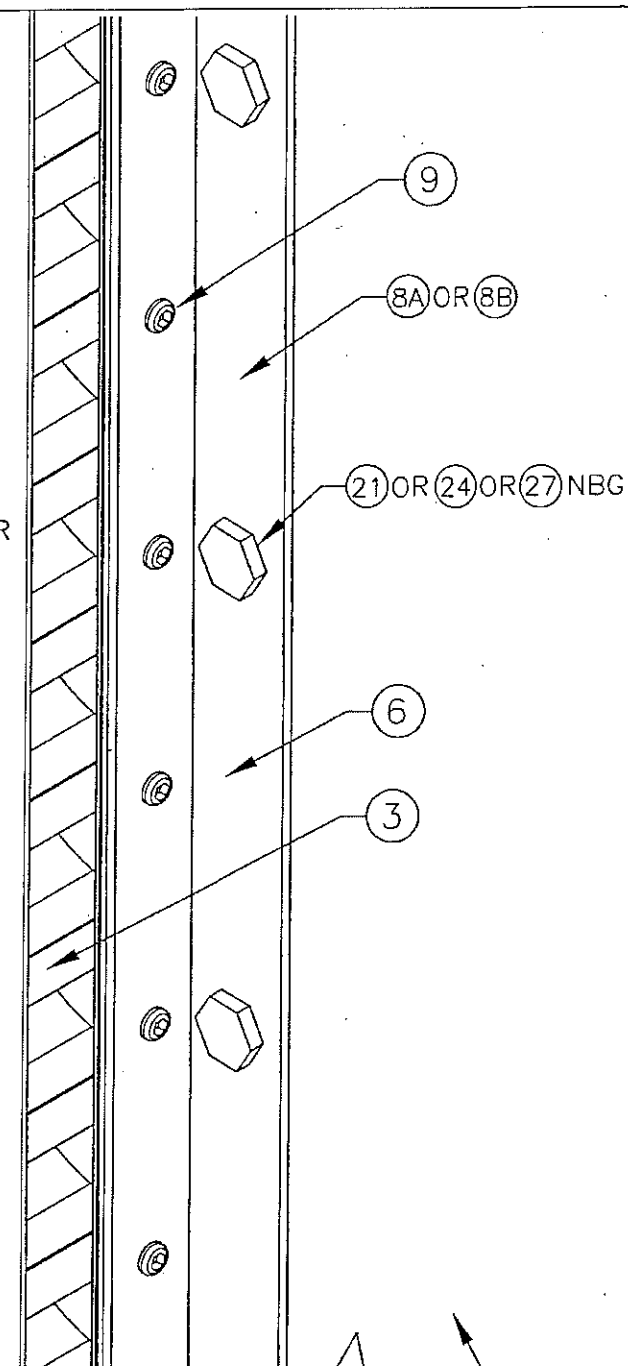
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 16-0201.17
Expiration Date 08/05/2019
By [Signature]
Miami Dade Product Control

3opp JAMB DETAIL
4 SCALE: 1:2

NOTE: CONTINUOUS PERIMETER
ANGLE MAY BE POSITIONED
ON JAMBS WITH ANGLE LEG
PROJECTED TOWARD
EXTERIOR OR INTERIOR OF
WALL. VALID FOR ALL
BUILDING SUBSTRATE TYPES.
ADDITIONAL SPACING
BETWEEN LOUVER AND
SUBSTRATE MAY BE
NECESSARY DUE TO
FASTENER HEAD-LOUVER
INSTALLATION CLEARANCE.

SEE FASTENER TABLE,
PAGE 3

NOTE FOR CMU:
BLOCK IS GROUT FILLED
AROUND OPENING. (MIN
2000PSI)



NBG (14) OR (22) OR (23) OR (25)

3 ISO JAMB DETAIL
4 SCALE: 1:2
CHANDER P. NANGIA
7423 HOLLOW RIDGE DR.
HOUSTON, TX 77095
FLORIDA PE # 21938

DRAWN BY M STEELE	DATE 4/27/09	AIROLITE The look that works™ SCHOFIELD, WISCONSIN 54476 715-359-6171	TITLE K605MD LOUVER	SHEET NO. 4 OF 16	CAD DRAWING NO. K605MD
SCALE 1:2	SHEET NO.				
Approved as complying with the Florida Building Code Date 08/05/2009 NOA# 09-0519.15 Miami Dade Product Control Division By [Signature]					

SEE FASTENER TABLE
PAGE 3

TRIANGLE 1 = MULLION UNIT
TRIANGLE 2 = LONG BLADE UNIT
TRIANGLE 3 = SPLICED UNIT

6.0 C/L SPACING FOR TRIANGLE 1
4.0 C/L SPACING FOR TRIANGLES 2 & 3

(BUILDING CONDITION NOT SHOWN)

CONTINUOUS ANGLE FASTENER DISTANCES

Diagram illustrating the dimensions and components for a building condition attachment leg:

- 0.81**: Dimension indicating the height of the attachment leg.
- 9**: Callout pointing to the attachment leg, with the note: **SEE FASTENER TABLE, PAGE 3**.
- 8A OR 8B**: Callout pointing to the attachment leg, indicating the fastener type.
- 1.0 MIN**: Dimension indicating the minimum length of the attachment leg.
- LOUVER ATTACHMENT LEG**: Label for the attachment leg.
- BUILDING CONDITION ATTACHMENT LEG**: Label for the attachment leg.

4 CONTINUOUS ANGLE, INTERIOR VIEW
5 SCALE: 1:2

- CONTINUOUS PERIMETER ANGLE

VARIES, BUT NEVER MORE
THAN MIN FASTENER SPACING

- CONTINUOUS PERIMETER ANGLE

VARIES, BUT NEVER MORE
THAN MIN FASTENER SPACING

SEE FASTENER TABLE,
PAGE 3

SEE FASTENER TABLE
PAGE 3

PRODUCT REVISED
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Acceptance No 16-020117
Expiration Date 08/05/2019
By [Signature]
Miami Code Product Control

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Building Code
Acceptance No. 14-0624.17
Expiration Date 08/05/2019
By [Signature]
Miami Code Product Control

DRAWN BY M STEELE	DATE 4/27/09
SCALE 1:2	
SHEET NO.	
5 OF 16	
CAD DRAWING NO.	
K605MD	

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SCHOFIELD, WISCONSIN 54476
715-263-4111

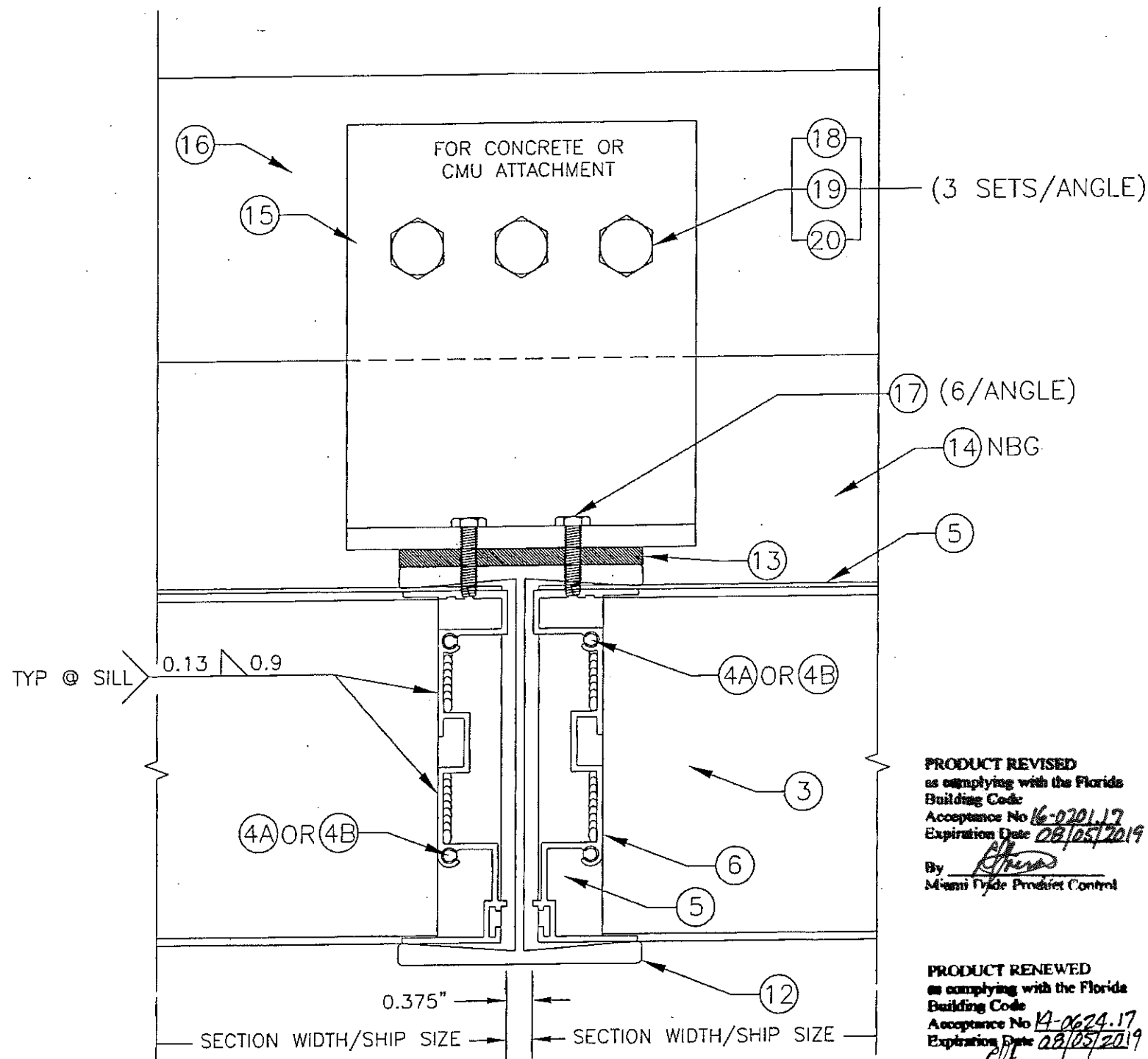
TITLE K605MD LOUVER

DETAILS - CONTINUOUS ANGLE

MAY 12 2009

Approved as complying with the
Florida Building Code
Date 08/05/2009
NOA# 09-0519.15
Miami-Dade Product Control
Division [Signature]
By [Signature]

CHANDER P. NANGIA, PE
7423 HOLLOW RIDGE DR.
HOUSTON, TX 77095
FLORIDA PE # 21938



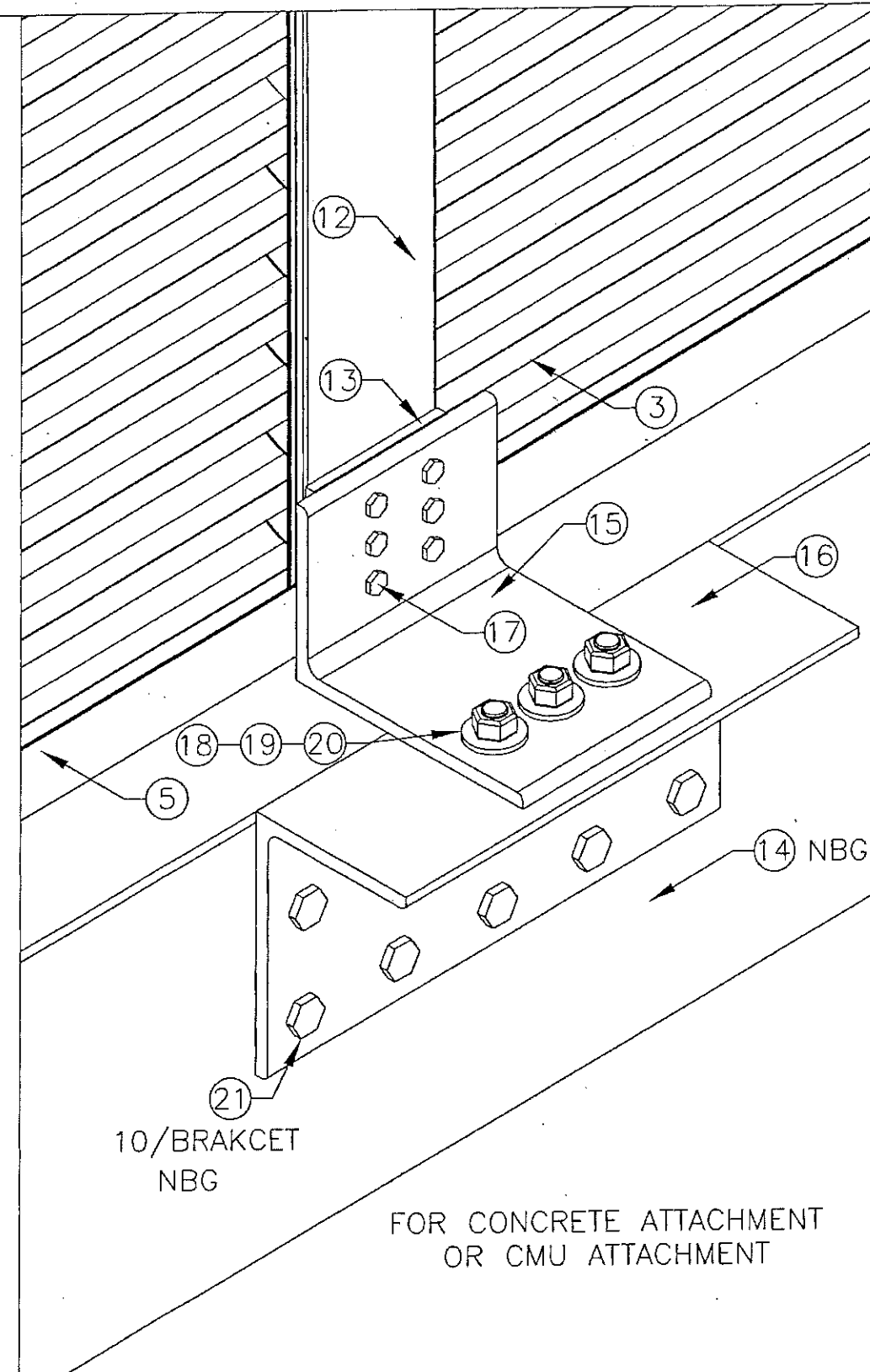
PRODUCT REVISED
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Expiration Date 08/05/2019
By *[Signature]*
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NBG=NOT BY MANUFACTURER

NOTE: CONTINUOUS PERIMETER
ANGLE NOT SHOWN ON THIS PAGE.

5A
6
"I" MULLION DETAIL
SCALE: 1:2
SEE "5 ISO" FOR ISOMETRIC DETAIL



5A ISO
6
ISOMETRIC (MULLION DETAIL)
(TYPICAL @HEAD AND SILL)
SCALE: 1:3

CHANDER P. NANGIA, P.E.
7423 HOLLOW RIDGE DR.
HOUSTON, TX 77095
FLORIDA PE # 21938

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715-359-6171

DRAWN BY M STEELE
SCALE VARIES
SHEET NO. 6 OF 16
DATE 4/27/09
CAD DRAWING NO. K605MD

TITLE K605MD LOUVER

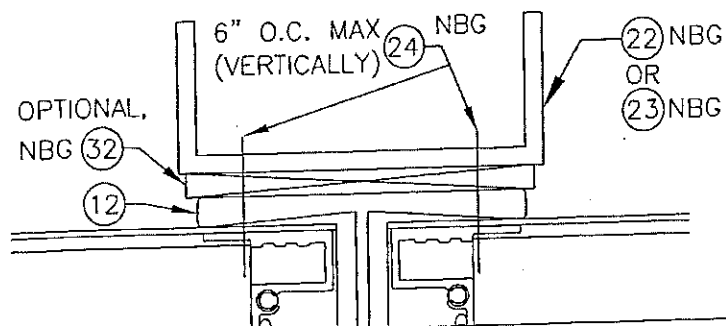
DETAILS - CMU & CONCRETE
MULLION SUPPORT

[Signature]
MAY 12 2009

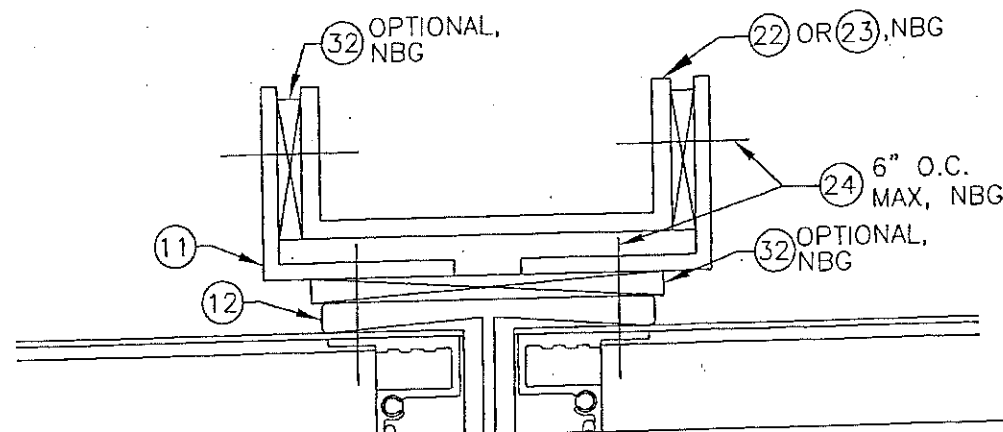
Approved as complying with the
Florida Building Code
Date 08/05/2009
NOA# 13-0519.15
Miami Dade Product Control
Division
By *[Signature]*

5 B STEEL MULLION ATTACHMENT 1
SCALE: 1:2

FOR STRUCTURAL STEEL OR STEEL STUD ATTACHMENT
OPTION ONE



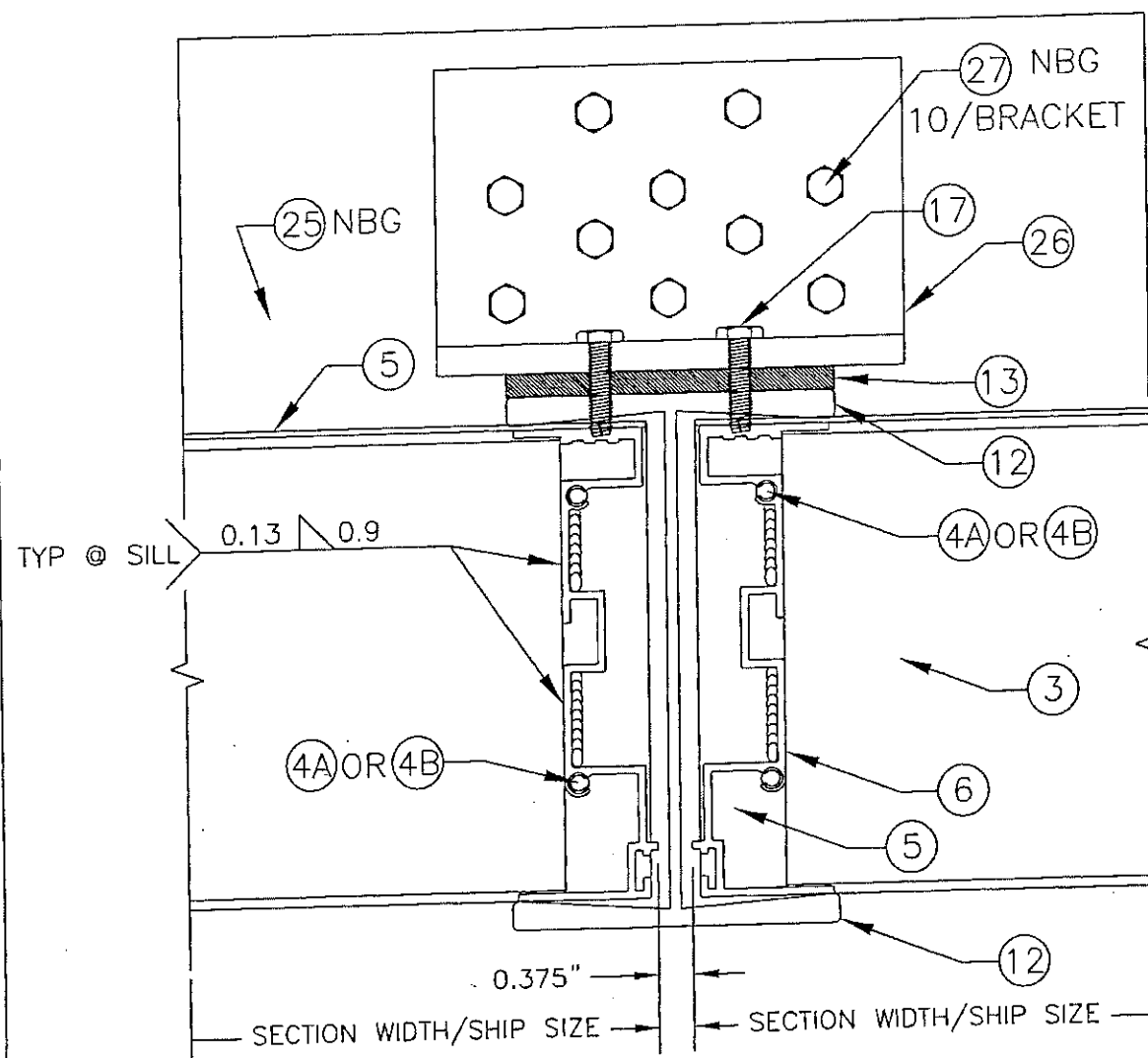
FOR STRUCTURAL STEEL OR STEEL STUD ATTACHMENT
OPTION TWO



5 C STEEL MULLION ATTACHMENT 2
SCALE: 1:2

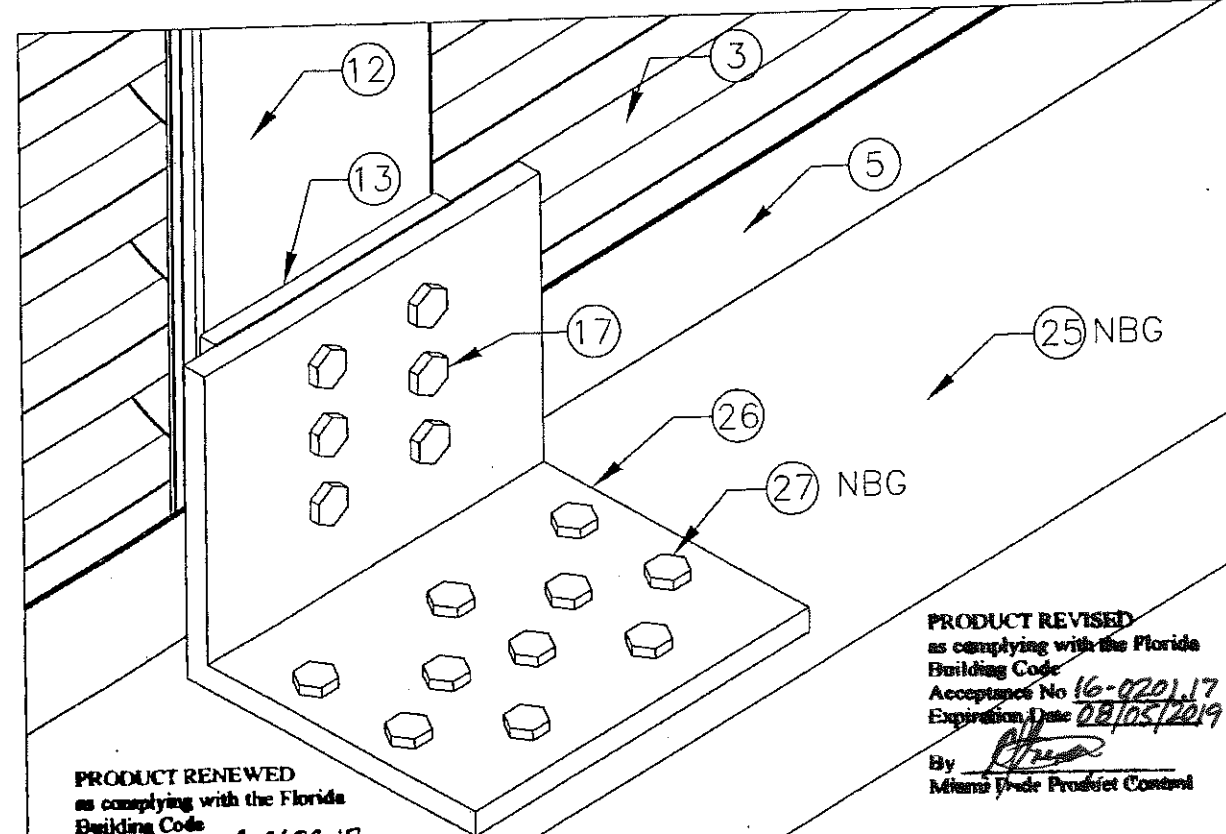
NOTE: STRUCTURAL STEEL AND STEEL STUD MULLION SUPPORT TYPES (NOT BY GREENHECK) MUST BE CAPABLE OF WITHSTANDING ALL LOADS TRANSFERRED BY THE LOUVER SECTIONS AT THE TOP AND BOTTOM OF THE VERTICAL MULLION CONDITION(S). THE FORMULA TO DETERMINE THE TRANSFERRED POINT LOAD IN POUNDS IS (SECTION WIDTH FEET X SECTION HEIGHT FEET X 110 PSF)/2.

5 D WOOD MULLION ATTACHMENT
SCALE: 1:2
SEE "5 D ISO" FOR ISOMETRIC DETAIL



NOTE: CONTINUOUS PERIMETER
ANGLE NOT SHOWN ON THIS PAGE.

NBG=NOT BY MANUFACTURER



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By Miami Dade Product Control

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5 D ISO WOOD MULLION ATTACHMENT
SCALE: 1:2

CHANDER P. NANGIA PE
7423 HOLLOW RIDGE DR.
HOUSTON, TX 77095
FLORIDA PE # 21938

DRAWN BY M STEELE	DATE 4/27/09
SCALE 1:2	SHEET NO. 7 OF 16
CAD DRAWING NO. K605MD	

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SCHOFIELD, WISCONSIN 54476
715-359-6171

TITLE
K605MD LOUVER
DETAILS - STEEL STUD,
STRUCTURAL STEEL, &
WOOD MULLION SUPPORT

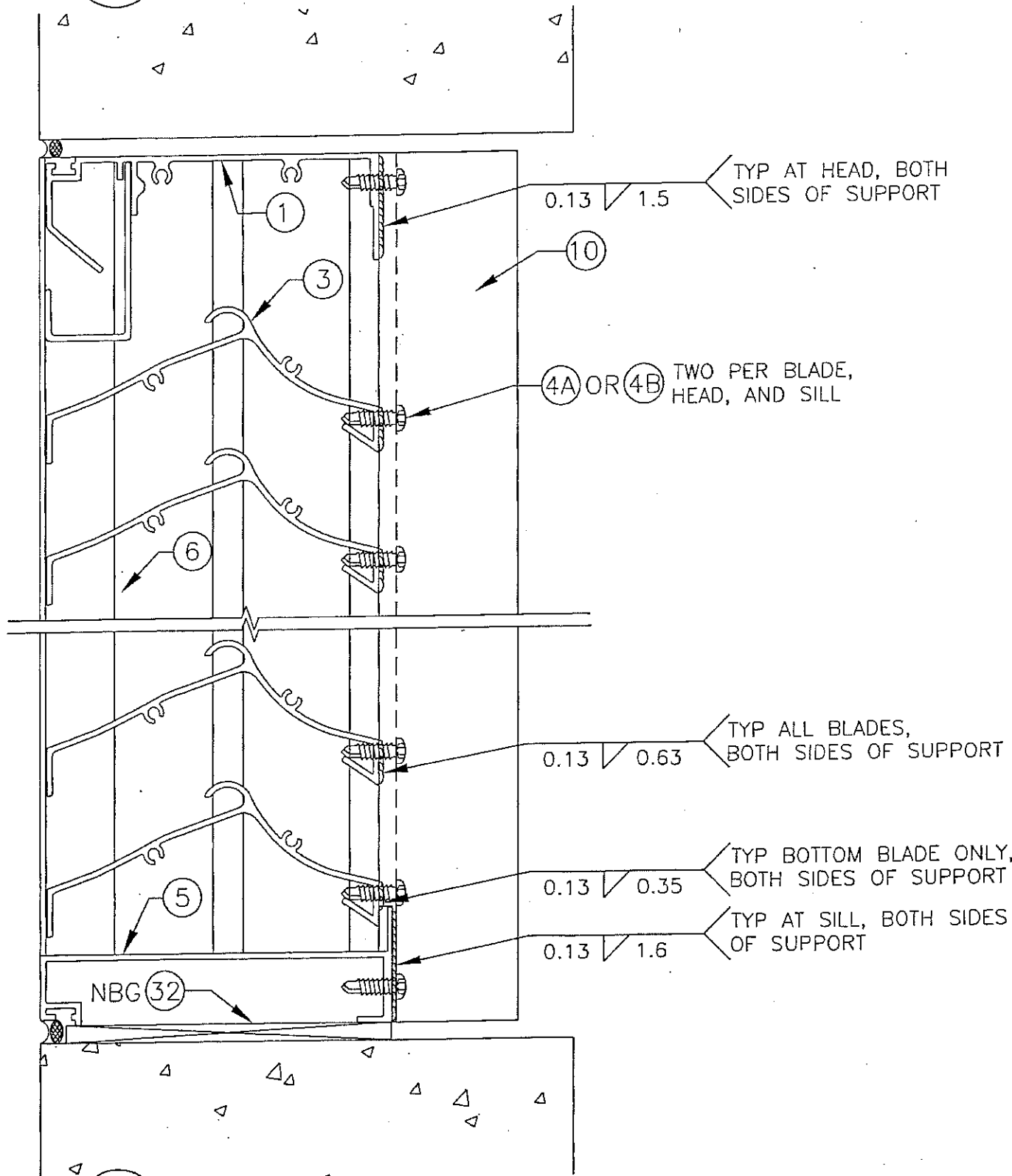
Signature

MAY 12 2009

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Florida Building Code
Date 08/05/2009
NOA# 09-0579.15
Miami Dade Product Control
By *Signature*

6
8

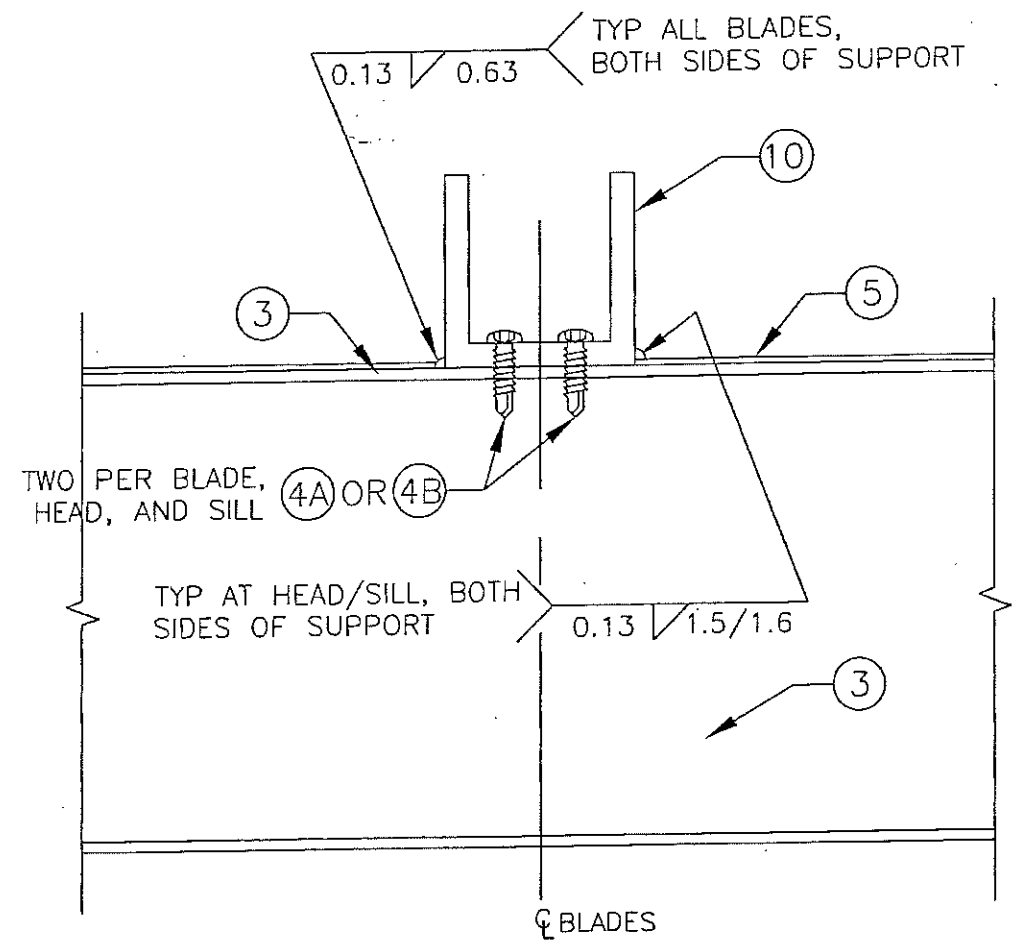
BLADE SUPPORT HEAD DETAIL (SECTIONS >72" WIDE) SIDE VIEW
SCALE: 1:2



7
8

BLADE SUPPORT SILL DETAIL (SECTIONS >72" WIDE) SIDE VIEW
SCALE: 1:2

NBG=NOT BY MANUFACTURER



8
8

BLADE SUPPORT DETAIL (SECTIONS >72" WIDE) TOP VIEW
SCALE: 1:2

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Acceptance No 14-0624-17
Expiration Date 08/05/2019
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CHANDER P. NANGIA, PE.
7423 HOLLOW RIDGE DR.
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FLORIDA PE # 21938

AIROLITE
The look that works.[™]
SCHOFIELD, WISCONSIN 54476
715-359-6171

DRAWN BY M STEELE
DATE 4/27/09

SCALE 1:2

SHEET NO.

8 OF 16

CAD DRAWING NO.

K605MD

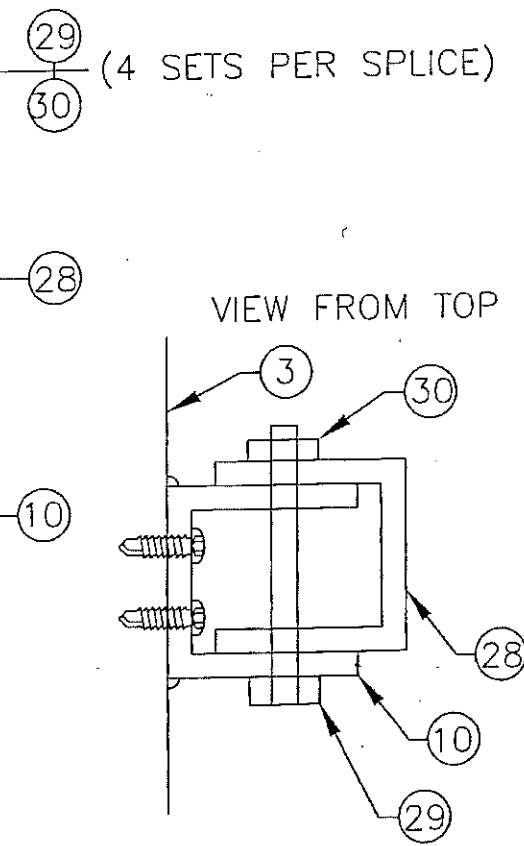
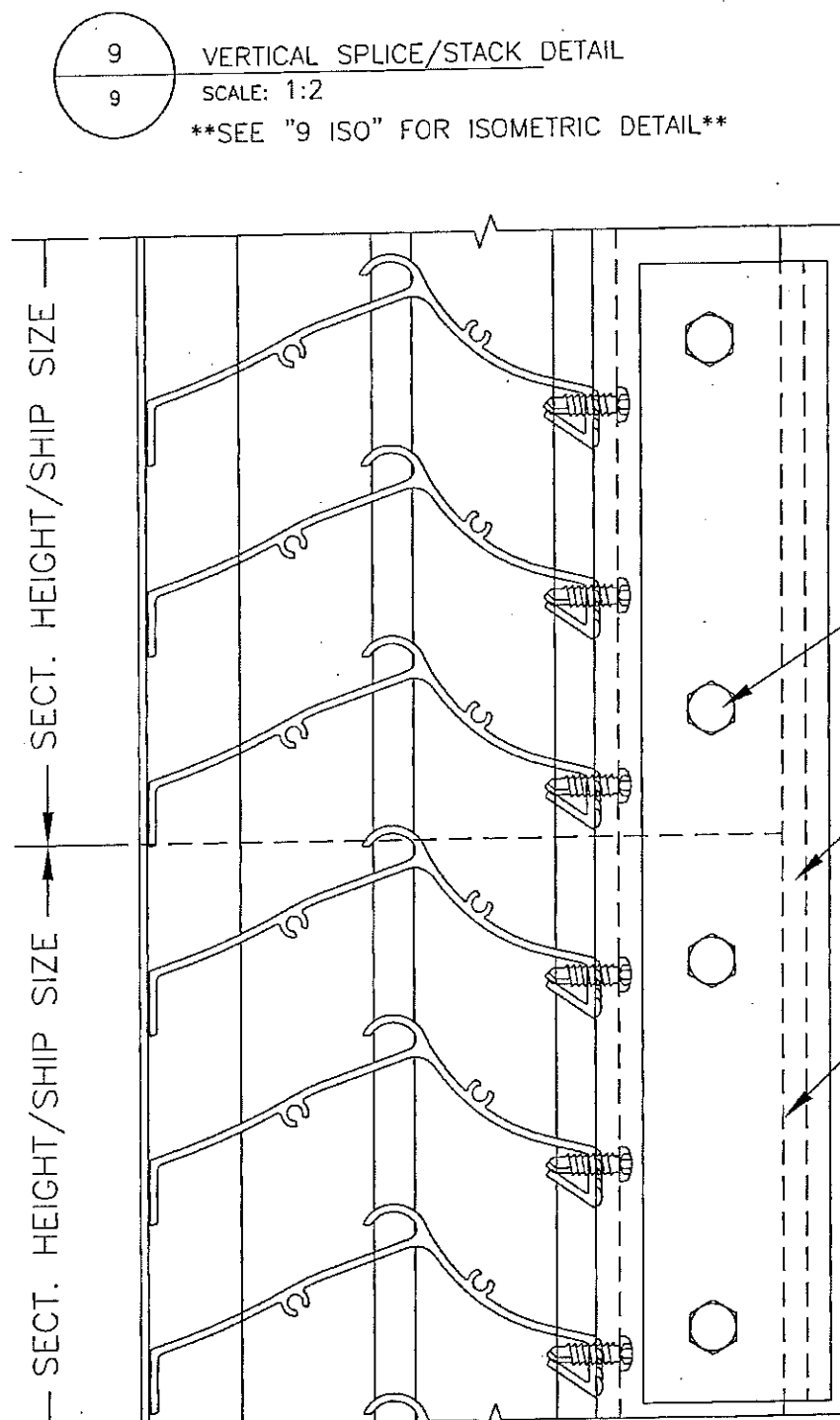
TITLE
K605MD LOUVER

DETAILS - BLADE SUPPORT

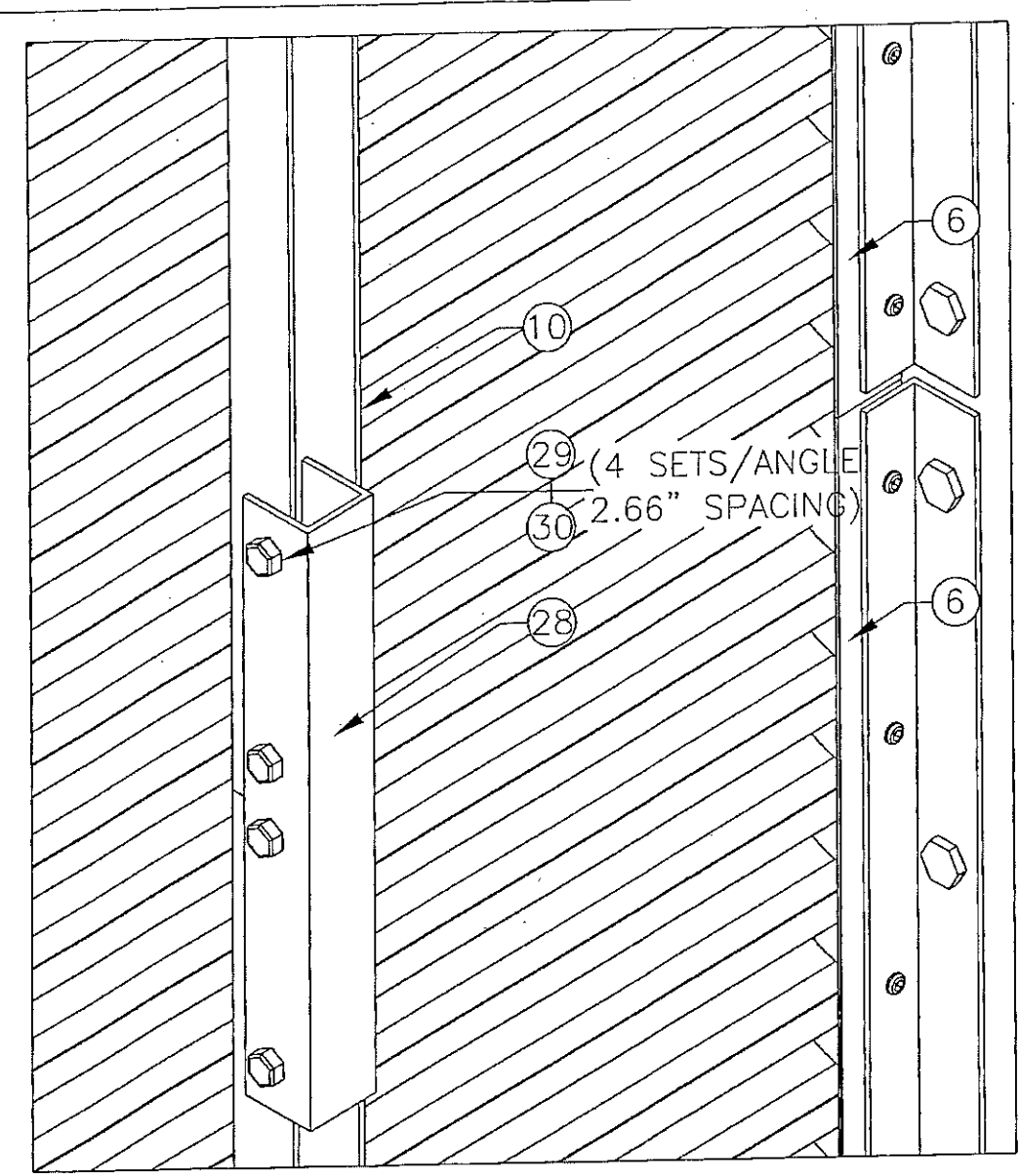
[Signature]

MAY 12 2009

Approved as complying with the
Florida Building Code
Date 08/05/2009
NOAH 09-0519-15
Miami Dade Product Control
Division
By *[Signature]*



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 16-020117
Expiration Date 08/05/2019
By *[Signature]*
Miami Trade Product Control




9 ISO
9 ISOMETRIC (SPLICE/STACK DETAIL)
SCALE: 1:3

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 14-062417
Expiration Date 08/05/2019
By *[Signature]*
Miami Trade Product Control

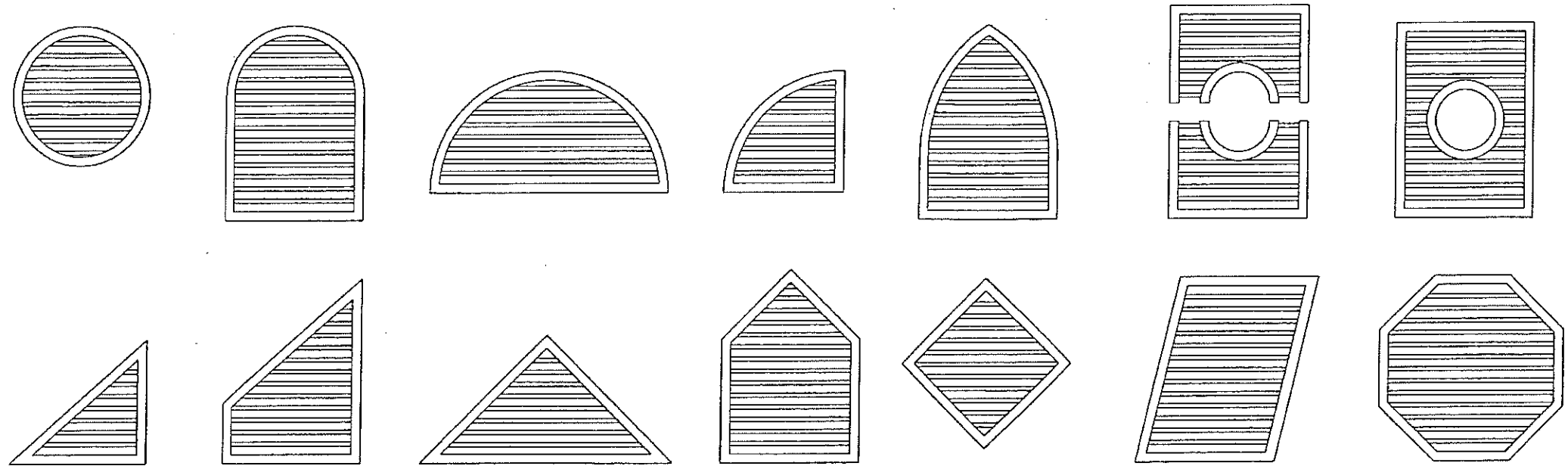
CHANDER P. NANGIA, P.E.
7423 HOLLOW RIDGE DR.
HOUSTON, TX 77095
FLORIDA PE # 21938

AIROLITE The look that works™ SCHOFIELD, WISCONSIN 54476 715-359-6171	DRAWN BY M STEELE	DATE 4/27/09
	SCALE VARIES	SHEET NO. 9 OF 16
TITLE K605MD LOUVER		
DETAILS - SPLICED BLADE SUPPORT		
CAD DRAWING NO. K605MD		


MAY 12 2009

Approved as complying with the
Florida Building Code
Date 08/05/2009
NOA# 09-0519.15
Miami Trade Product Control
Division *[Signature]*

BELOW ARE THE SHAPE UNITS THAT THE NOA WILL ALLOW



NOTES:

1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN AND HAVE CONSTRUCTION AS DESCRIBED IN THIS PACKET.
2. ALL SHAPE LOUVERS ARE TO HAVE THE SAME WIDTH, HEIGHT, AND PRESSURE RESTRICTIONS AS RECTANGULAR LOUVERS, AND MAY BE SPLICED/STACKED VERTICALLY AND HORIZONTALLY (MULLED UNITS) IN THE SAME MANNER AS RECTANGULAR LOUVERS.
3. IF THE SHAPE LOUVER SECTION WIDTH EXCEEDS 72", A BLADE SUPPORT IS REQUIRED.
4. A MULLION REQUIRED FOR SHAPE LOUVERS ONLY IF BOTH OF THE FOLLOWING ARE TRUE: OVERALL UNIT WIDTH IS >72", AND SECTION HEIGHT IS >72".
5. FOLLOW THE SAME GUIDELINES AS NON-SHPAED UNITS FOR FASTENING OF SHAPE UNITS TO THE BUILDING CONDITION.

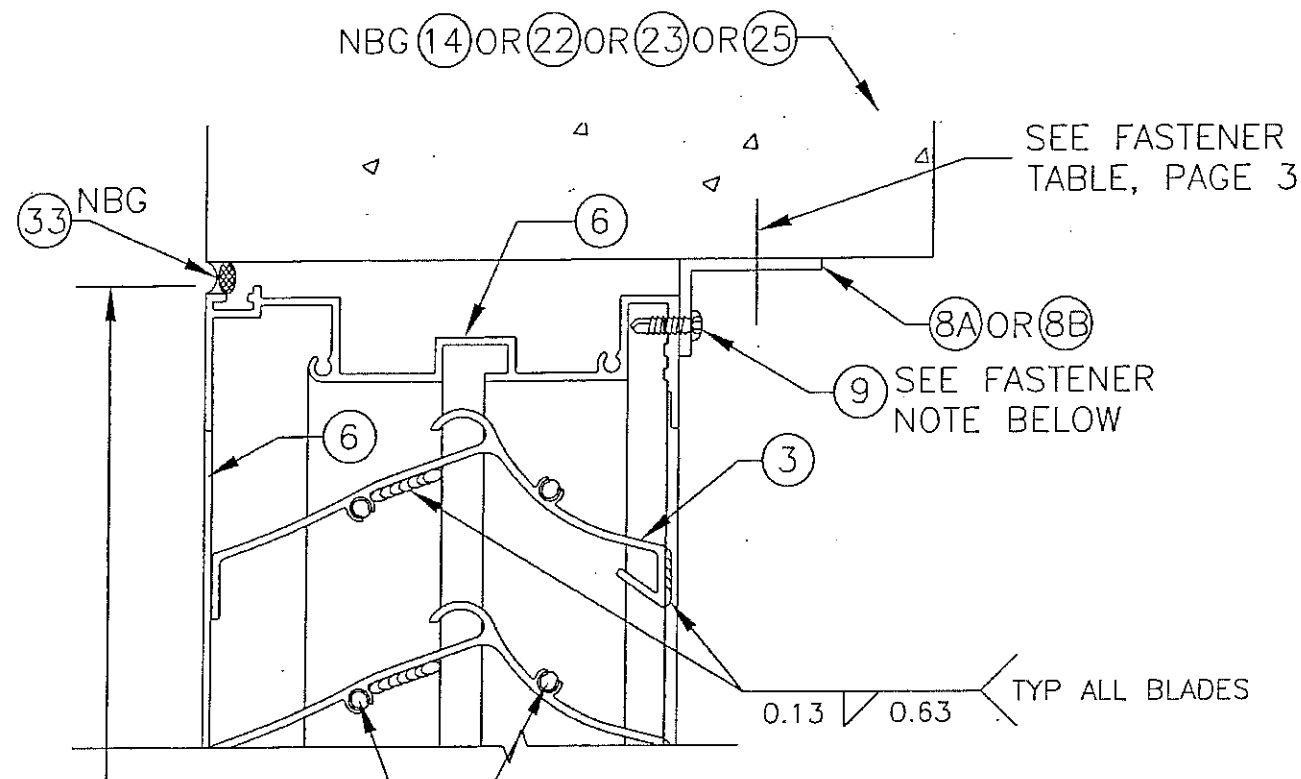
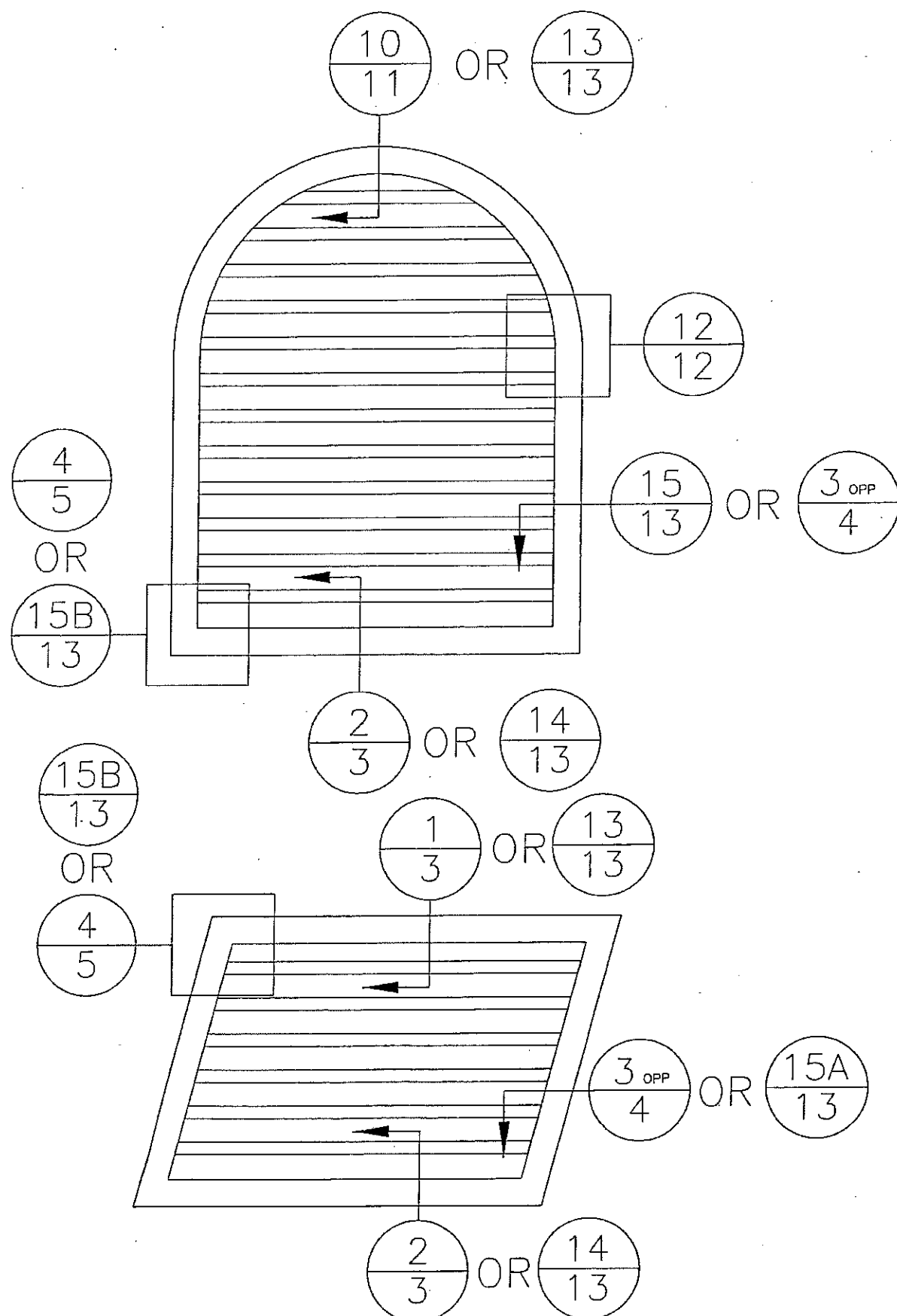
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 16-0206.17
Expiration Date 08/05/2019
By *[Signature]*
Miami Dade Product Control

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 14-0624.17
Expiration Date 08/05/2019
By *[Signature]*
Miami Dade Product Control

CHANDER P. NANGIA P.E.
7423 HOLLOW RIDGE DR.
HOUSTON, TX 77095
FLORIDA PE # 21938

DRAWN BY M STEELE	DATE 4/27/09
	SCALE 0.5":1'
SHEET NO. 10 OF 16	
CAD DRAWING NO. K605MD	
TITLE K605MD LOUVER	
SHAPE STYLES, ELEVATION CONFIGURATIONS	
<i>[Signature]</i> MAY 12 2009	
Approved as complying with the Florida Building Code Date 08/05/2009 NOA# 09-0514.15 Miami Dade Product Control Division By <i>[Signature]</i>	

4 TYPICAL SHAPE LOUVER CALLOUTS



OVERALL LOUVER HEIGHT/
SECTION HEIGHT/
SHIP SIZE

FASTENER NOTES FOR (9):
6" MAX \varnothing FOR (1), 4" MAX \varnothing FOR (2) & (3)

10 SHAPES HEAD DETAIL
11 SCALE: 1:2

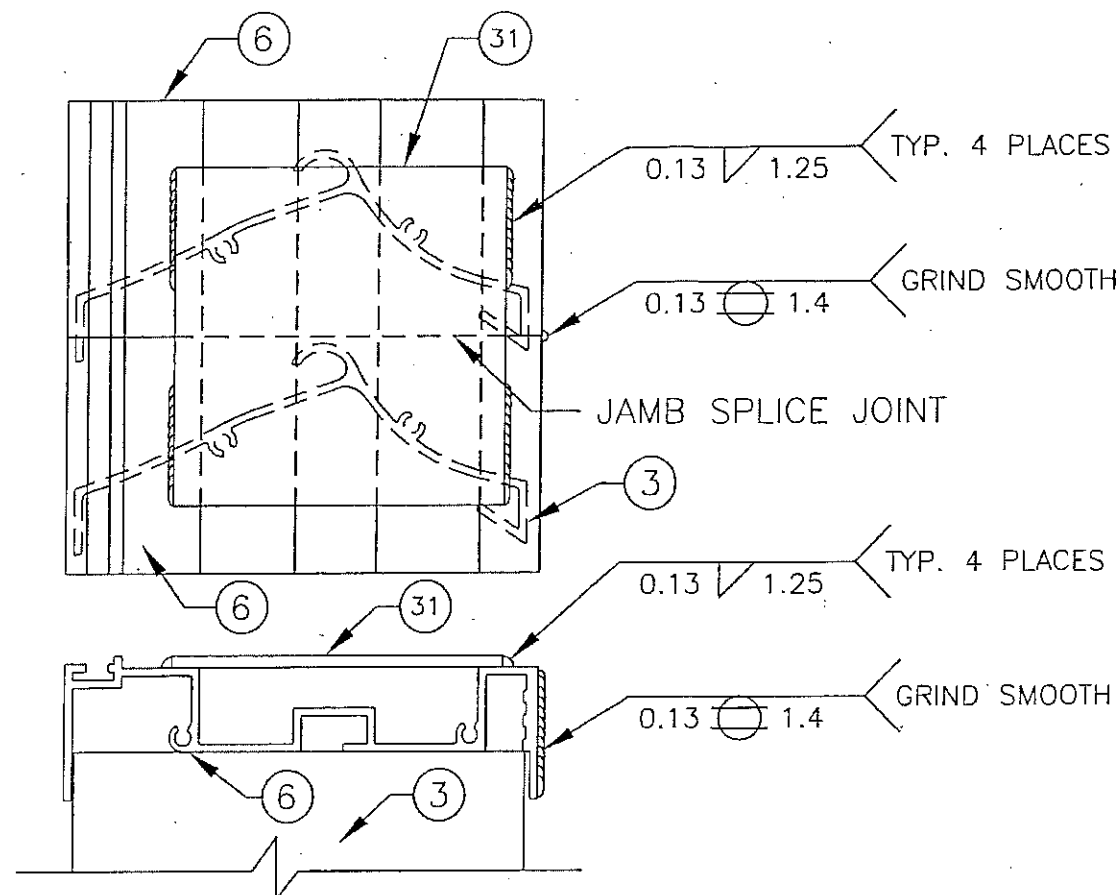
PRODUCT RENEWED!
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Building Code
Acceptance No 14-0624.17
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HOUSTON, TX 77095
FLORIDA PE # 21938

NBG=NOT BY MANUFACTURER

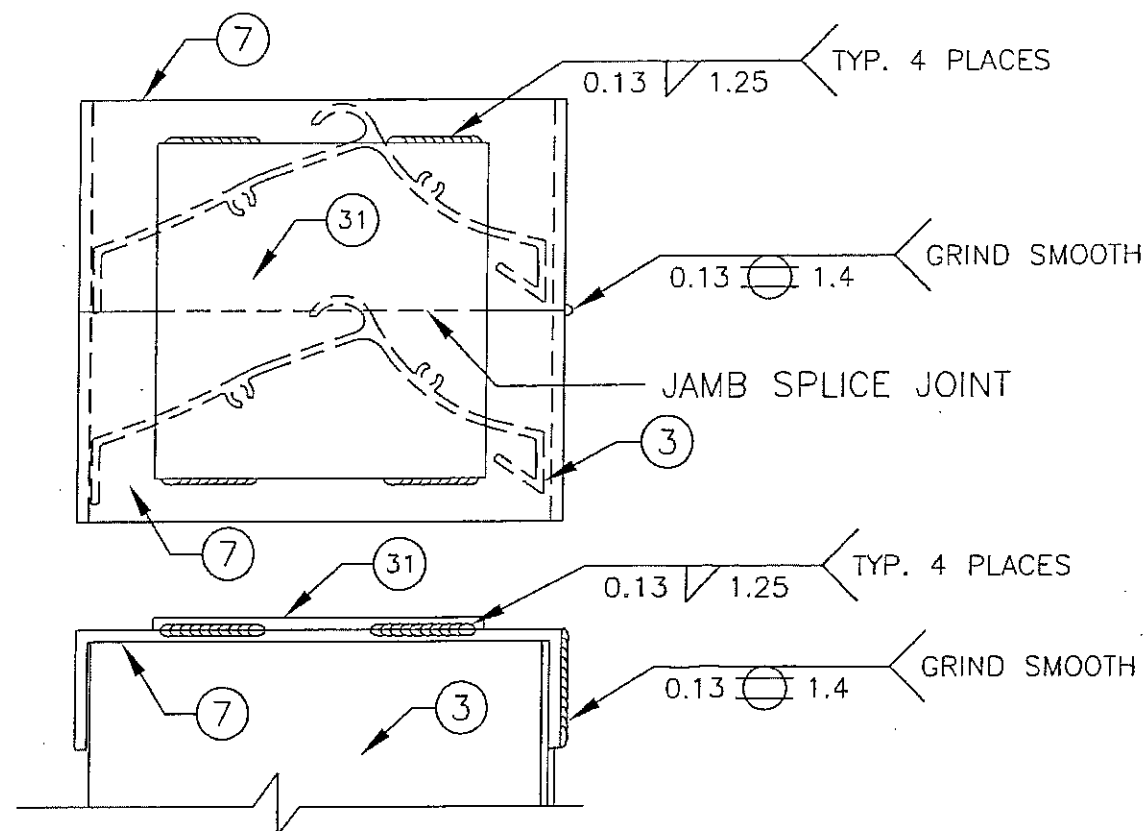
AIROLITE The look that works™ SCHOFIELD, WISCONSIN 54476 715-359-6171	DRAWN BY M STEELE	DATE 4/27/09
	SCALE VARIES	SHEET NO. 11 OF 16
TITLE K605MD LOUVER		
SHAPE ELEVATIONS, DETAILS - SHAPE		
CAD DRAWING NO. K605MD		
Approved as complying with the Florida Building Code Date 08/05/2009 NOA# 09-0519.15 Miami Dade Product Control Division <i>[Signature]</i> By <i>[Signature]</i>		

12 A JAMB SPLICE DETAIL
SCALE: 1:2



THIS IS ONLY ON SHAPE UNITS WHEN A CURVED EXTRUDED JAMB MEETS A STRAIGHT JAMB (THIS IS NOT FOR A "SPliced" UNIT WHERE ONE LOUVER SIT ON TOP OF ANOTHER).

12 B CHANNEL JAMB SPLICE DETAIL
SCALE: 1:2



THIS IS ONLY ON SHAPE UNITS WHEN A CURVED C-CHANNEL JAMB MEETS A STRAIGHT JAMB (THIS IS NOT FOR A "SPliced" UNIT WHERE ONE LOUVER SIT ON TOP OF ANOTHER).

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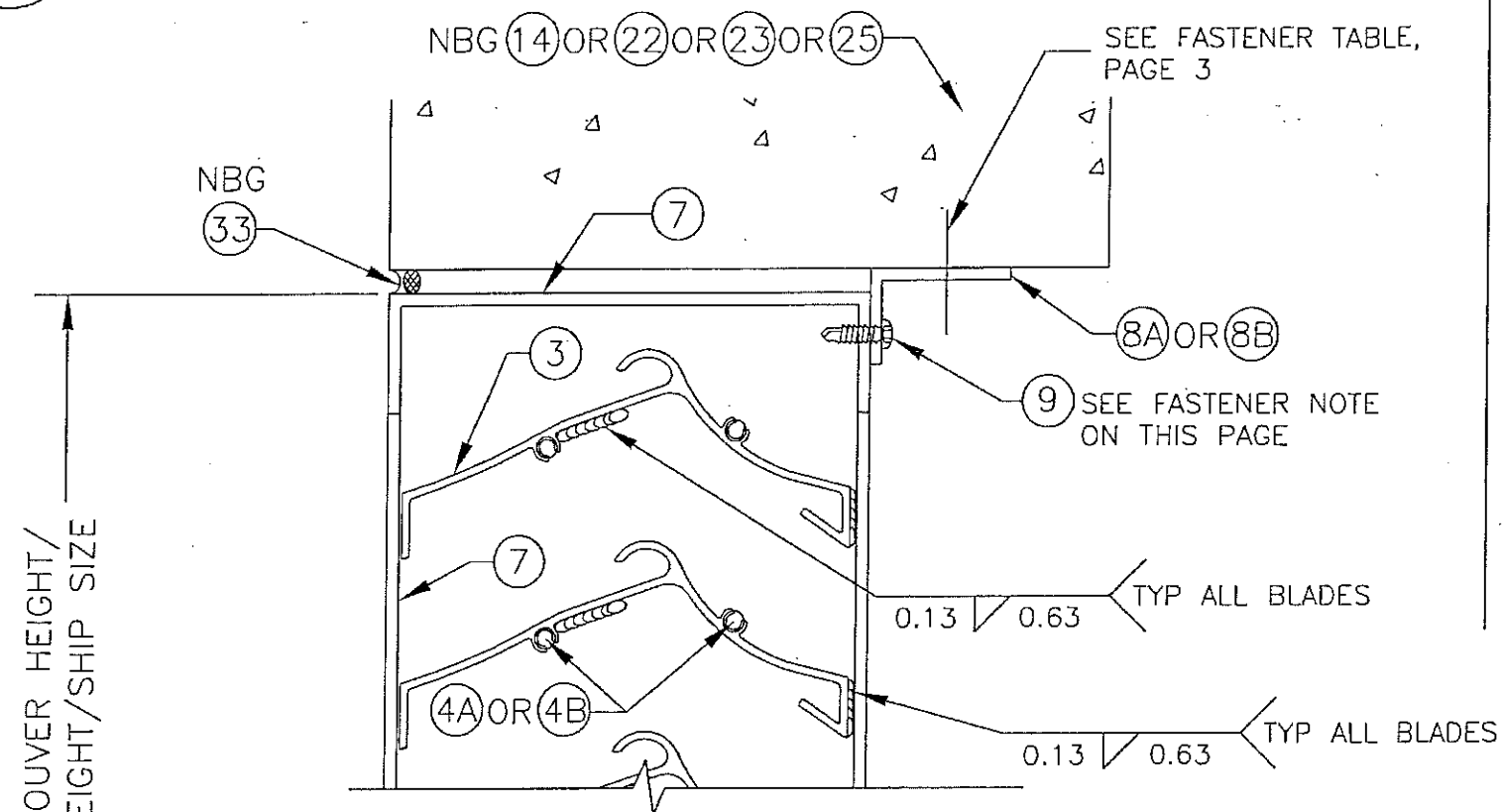
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	SCALE 1:2	SHEET NO. 12 OF 16
TITLE K605MD LOUVER		
SHAPE LOUVERS, DETAILS - SPliced JAMBS		
MAY 12 2009 Approved as complying with the Florida Building Code Date 08/05/2009 NOAH 04-0514.15 Miami Dade Product Control Division <i>[Signature]</i> By <i>[Signature]</i>		

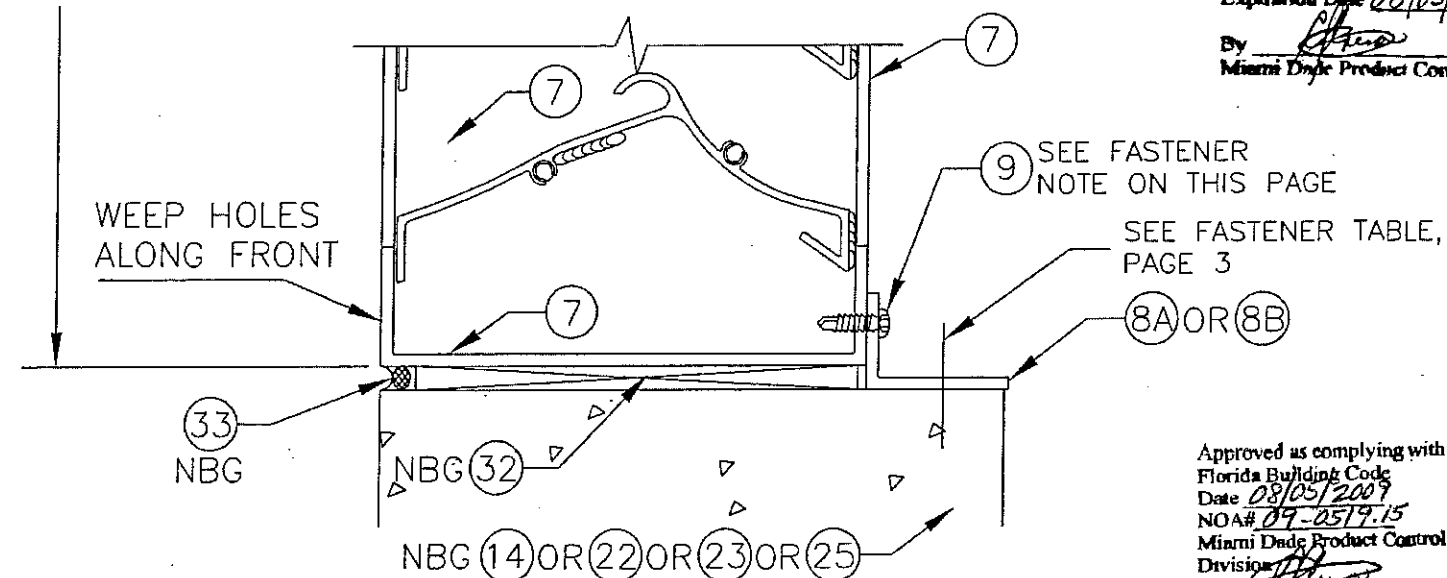
13
13

SHAPES HEAD DETAIL - CHANNEL FRAME
SCALE: 1:2

SETUP FOR OPTIONAL CHANNEL FRAME



FASTENER NOTES FOR (9):
6" MAX \varnothing FOR (1), 4" MAX \varnothing FOR (2) & (3)



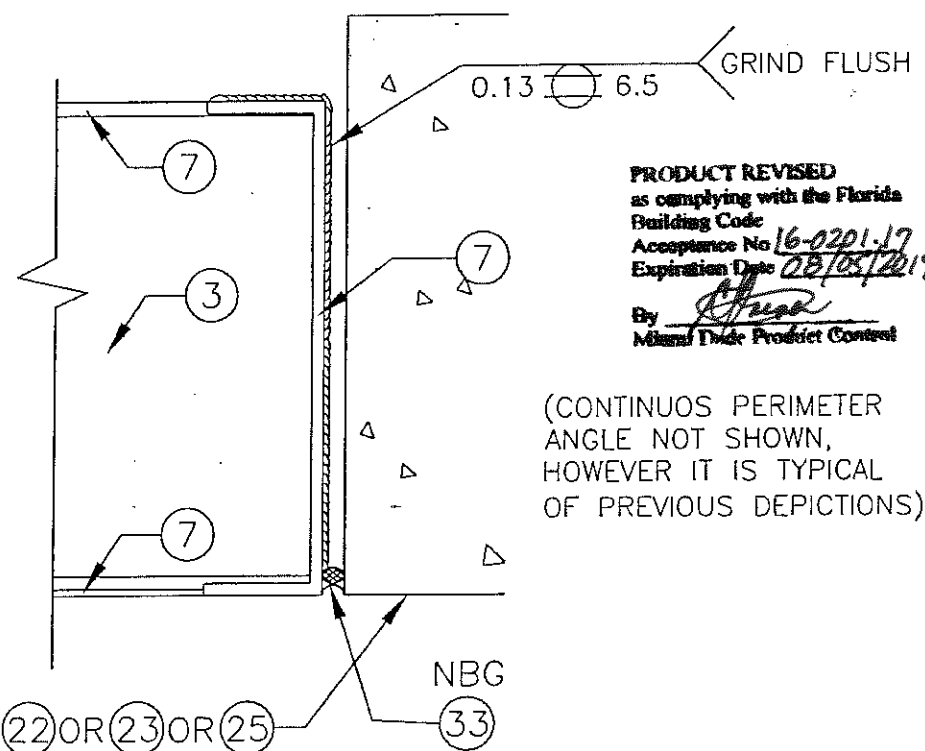
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SHAPES SILL DETAIL - CHANNEL JAMB
SCALE: 1:2

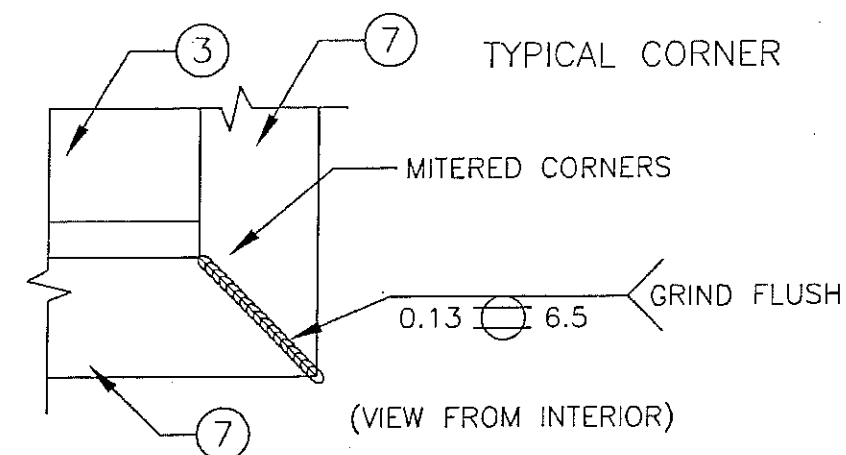
NBG=NOT BY MANUFACTURER

15 A
13

SHAPES CHANNEL JAMB DETAIL
SCALE: 1:2



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15 B
13

SHAPES SILL DETAIL - CHANNEL JAMB INTERIOR
SCALE: 1:2

DRAWN BY
M STEELE

DATE
4/27/09

SCALE
1:2

SHEET NO.
13 OF 16

CAD DRAWING NO.
K605MD

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SCHOFIELD, WISCONSIN 54476
715-359-6171

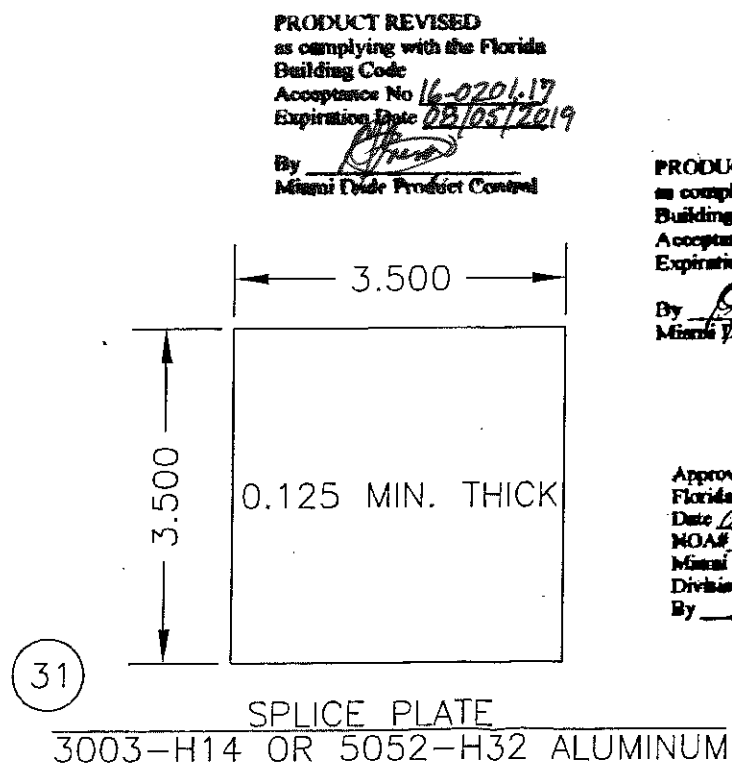
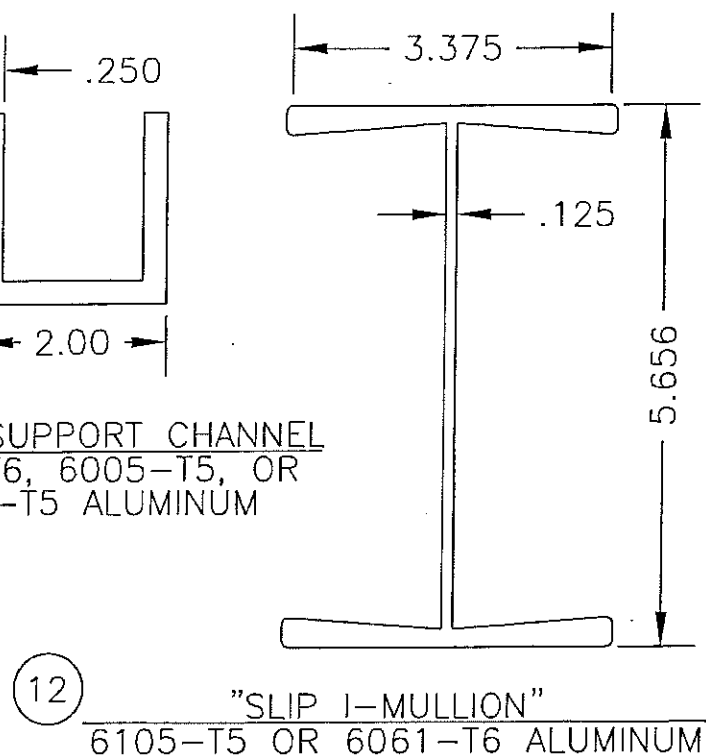
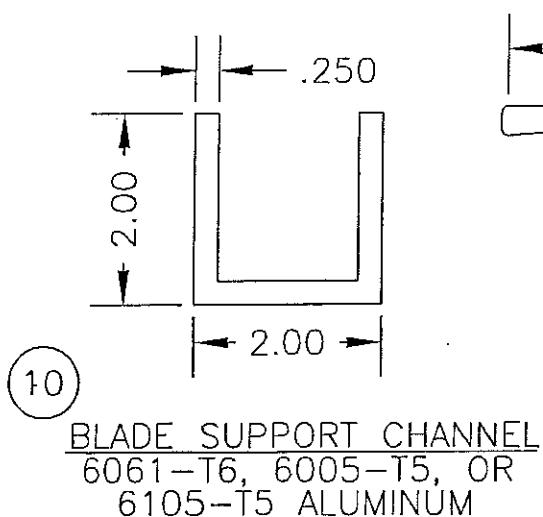
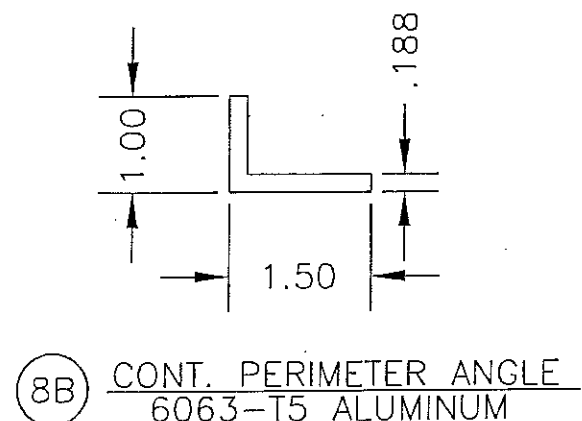
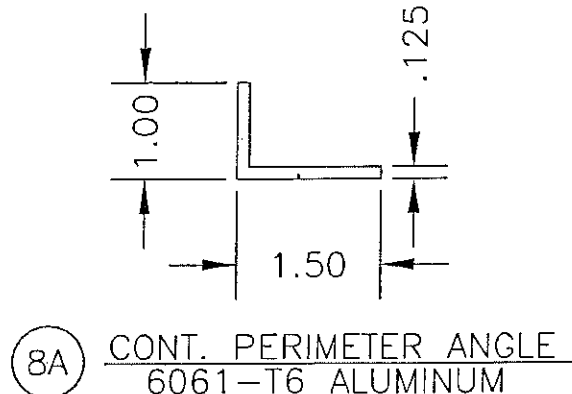
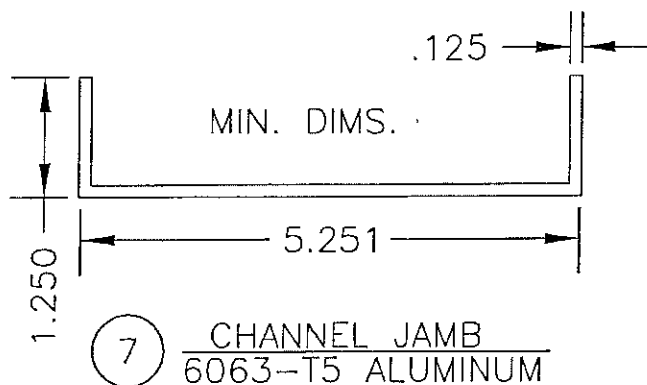
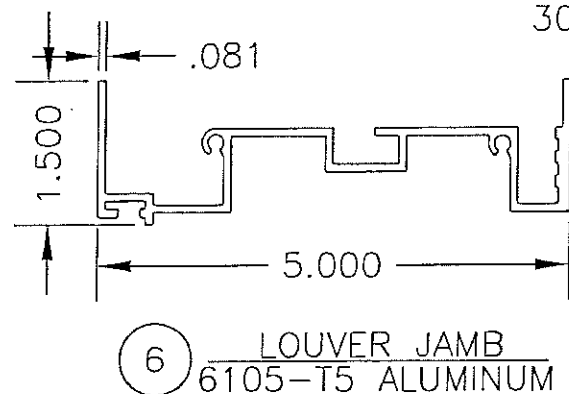
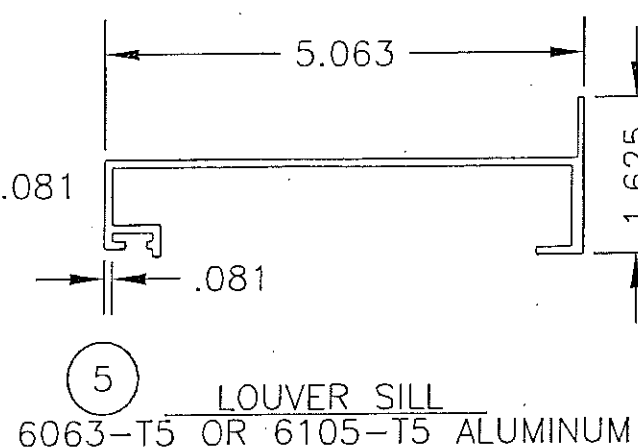
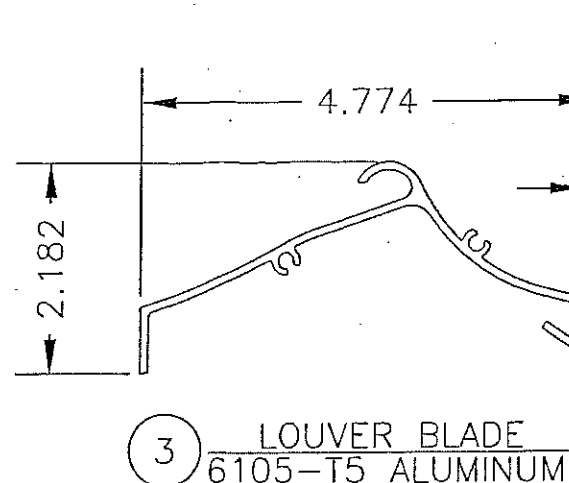
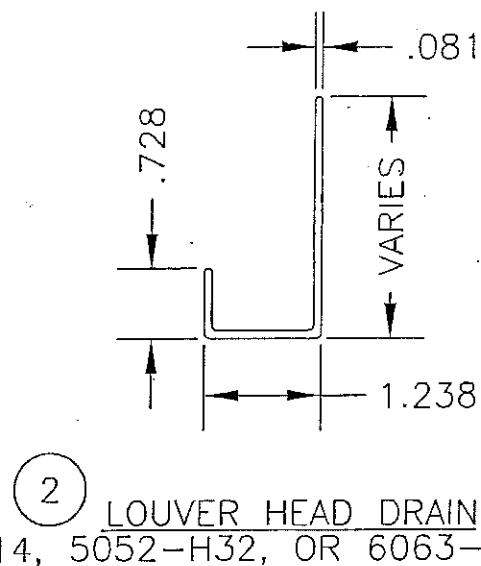
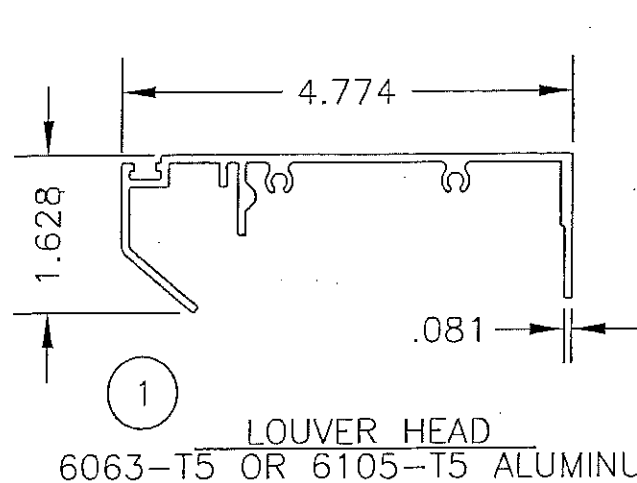
K605MD LOUVER

SHAPE LOUVERS,
DETAILS - CHANNEL FRAME

Signature

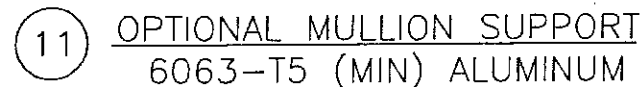
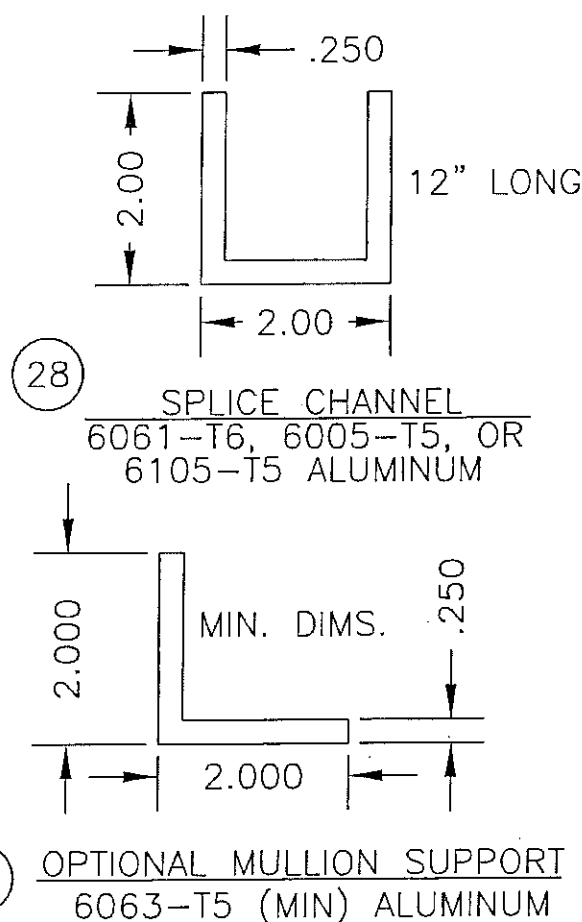
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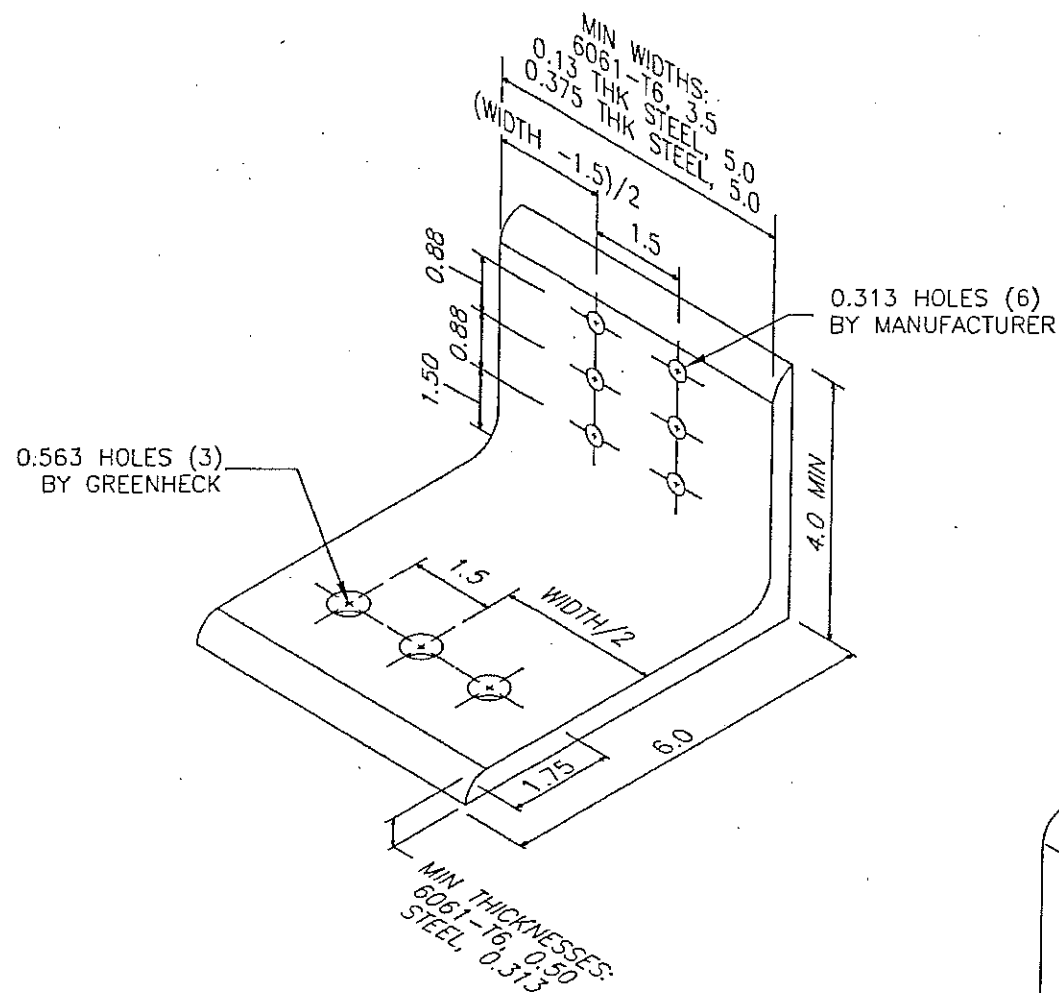


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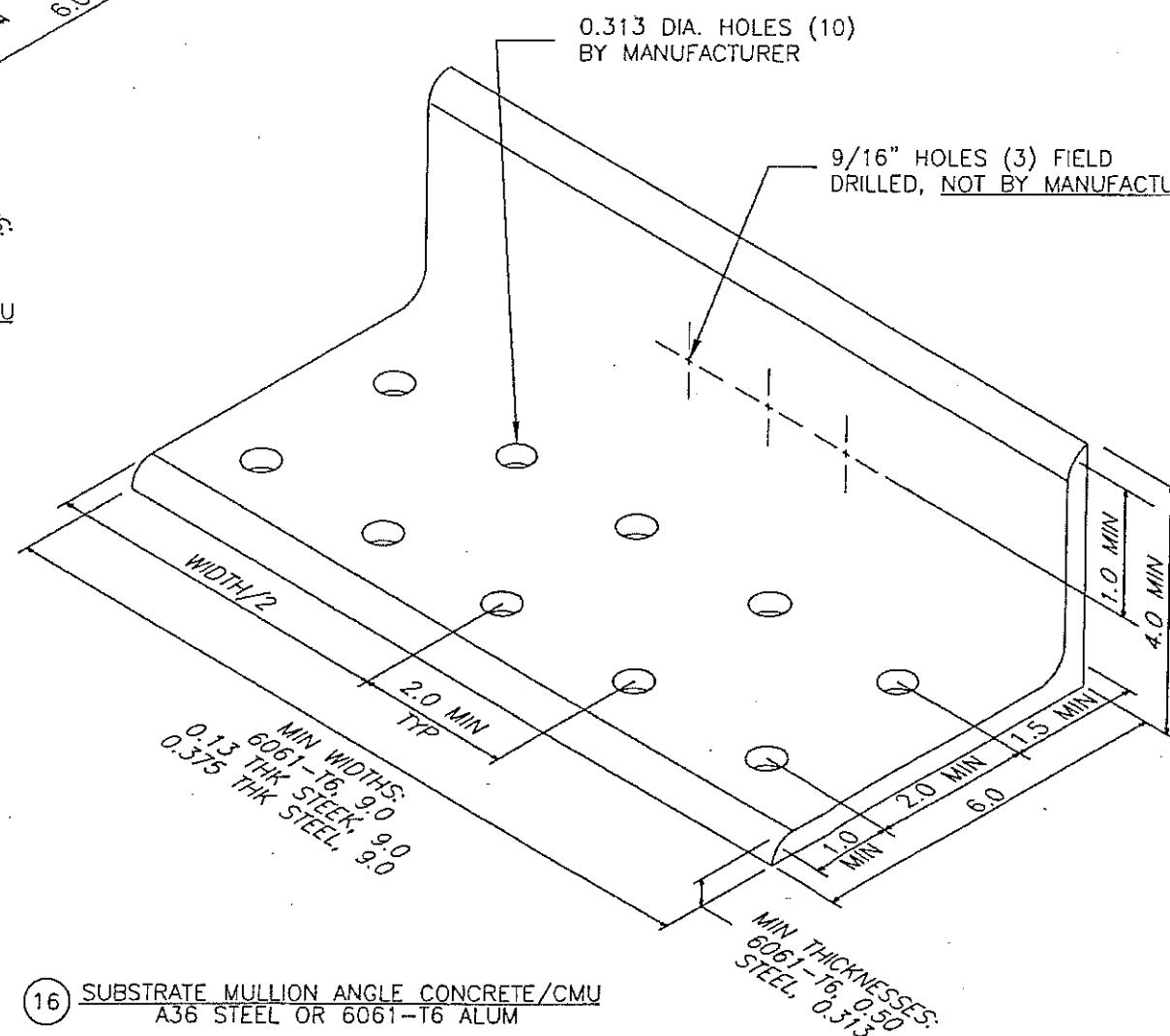
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MOA# 09-0519.15
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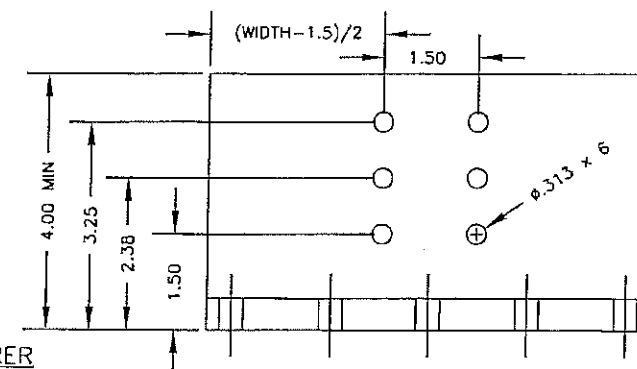
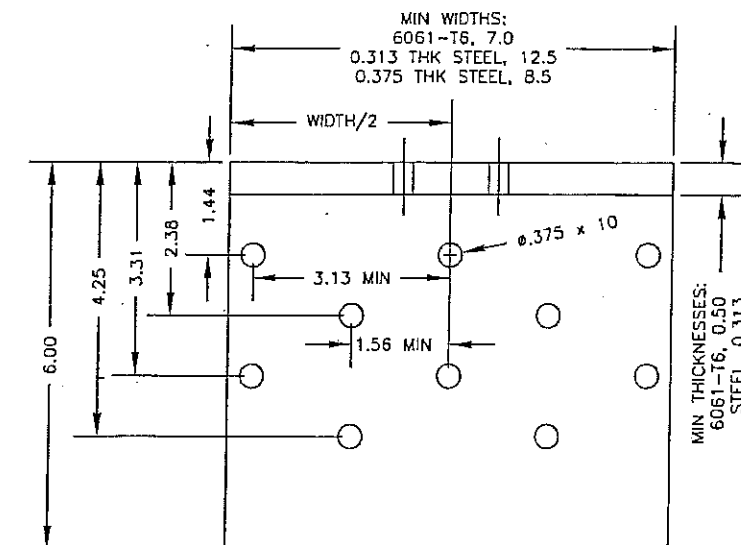
AIROLITE The look that works. [™] SCHOFIELD, WISCONSIN 54476 715-359-6171	DRAWN BY M STEELE	DATE 4/27/09
	SCALE 1:2	SHEET NO. 14 OF 16
TITLE K605MD LOUVER		
CAD DRAWING NO. K605MD		
DETAILS - PART DETAILS		
<div style="text-align: right;"> <i>[Signature]</i> MAY 12 2009 </div>		
<div style="border: 1px solid black; padding: 5px;"> CHANDER P. NANGIA PE. 7423 HOLLOW RIDGE DR. HOUSTON, TX 77095 FLORIDA PE # 21938 </div>		



15 LOUVER MULLION ANGLE CONCRETE/CMU
A36 STEEL OR 6061-T6 ALUM



16 SUBSTRATE MULLION ANGLE CONCRETE/CMU
A36 STEEL OR 6061-T6 ALUM




26 MULLION SUPPORT, WOOD
6061-T6 ALUMINUM,
OR A36 STEEL

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Building Code
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By *[Signature]*
Miami Dade Product Control

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Florida Building Code
Date 08/05/2009
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Miami Dade Product Control
Division *[Signature]*
By *[Signature]*

CHANDER P. NANGIA, PE
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DRAWN BY M STEELE	DATE 4/27/09	 The look that works™ SCHOFIELD, WISCONSIN 54476 715-359-6171	SCALE 1:2	SHEET NO. 15 OF 16	TITLE K605MD LOUVER
CAD DRAWING NO.	K605MD				

MAY 12 2009

ITEM	DESCRIPTION	MATERIAL	NOTES
1	LOUVER HEAD	ALUM	
2	LOUVER HEAD DRAIN	ALUM	
3	LOUVER BLADE	ALUM	
4A	#10 x 0.5 MIN THREAD, SCREW, 7075-T6 ALUM	ALUM	USED ON ANODIZED UNITS
4B	#10 OR #12 x 0.5 MIN THREAD, SCREW, STAINLESS	SS	TYPICALLY USED
5	LOUVER SILL	ALUM	
6	LOUVER JAMB	ALUM	
7	OPTIONAL C-CHANNEL JAMB	ALUM	OPTIONAL FOR SHAPE UNITS
8A	CONTINUOUS MTG ANGLE, 1.0x1.5x0.125 MIN, 6061-T6	ALUM	
8B	CONTINUOUS MTG ANGLE, 1.0x1.5x0.188 MIN, 6063-T5	ALUM	
9	#10-24 OR #12-24 x 0.5 MIN THREAD, SCREW	SS	
10	BLADE SUPPORT CHANNEL, 2x2x2x0.25	ALUM	
11	OPTIONAL ADDITIONAL MULLION SUPPORT ANGLE	ALUM	OPTIONAL
12	SLIP "I" MULLION	ALUM	
13	GASKET, 3.5x4x0.25 MIN (BY MANUFACTURER)	VARIES	RUBBER/NEOPRENE LIKE
14	CONCRETE OR GROUT FILLED CMU, 2000 PSI MIN	VARIES	NOT BY MANUFACTURER
15	LOUVER MULLION ANGLE FOR CONCRETE/CMU	STEEL/ALUM	
16	SUBSTRATE MULLION ANGLE FOR CONCRETE/CMU	STEEL/ALUM	
17	0.25-20x1 MIN, SCREW (BY MANUFACTURER)	SS	
18	BOLT, 0.5-13x1 MIN (BY MANUFACTURER)	SS	
19	NUT, 0.5-13 MIN (BY MANUFACTURER)	SS	
20	WASHER, 0.5 MIN (BY MANUFACTURER)	SS	
21	0.25 DIA. ITW BUILDEX TAPCON w/ ADV. THREADFORM, 1.75 MIN EMBEDMENT	SS/STEEL	NOT BY MANUFACTURER
22	STRUCTURAL STEEL, 0.075 MIN THICKNESS	SS/STEEL	NOT BY MANUFACTURER
23	STEEL STUD, 14GA MIN	SS/STEEL	NOT BY MANUFACTURER
24	0.25 DIAMETER SCREW, MUST FULLY ENGAGE STEEL	SS/STEEL	NOT BY MANUFACTURER
25	WOOD SUBSTRATE, G=0.55 MIN DENSITY	WOOD	NOT BY MANUFACTURER
26	MULLION ANGLE FOR WOOD	STEEL/ALUM	
27	0.375 DIA. LAG SCREW, 3.0 MIN EMBEDMENT	SS/STEEL	NOT BY MANUFACTURER
28	SPLICE CHANNEL, 2x2x2x0.25, 12" LONG	ALUM	
29	BOLT, 0.313x2.5 MIN (BY MANUFACTURER)	SS	
30	NUT, 0.313(5X16) (BY MANUFACTURER)	SS	
31	SPLICE PLATE	ALUM	
32	SHIMS, OPTIONAL, AS REQUIRED, INCOMPRESSABLE	VARIES	NOT BY MANUFACTURER
33	SEALANT AND BACKER ROD	VARIES	NOT BY MANUFACTURER

GENERAL NOTES:

1. IT SHALL BE THE RESPONSIBILITY OF THE PERMIT HOLDER TO VERIFY THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE TO SUPPORT THE LOADS IMPOSED BY THE PENTHOUSE ASSEMBLY.

2. THE K605MD HAS BEEN DESIGNED AND QUALIFIED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC) AND TEST PROTOCOLS TAS-201 (IMPACT), TAS-202 (UNIFORM STATIC PRESSURE), AND TAS-203 (CYCLIC FATIGUE) TO A MAXIMUM DESIGN LOAD OF +/- 110 PSF.

3. THE MAXIMUM UNSUPPORTED BLADE LENGTH SHALL NOT EXCEED 72" WITHOUT STIFFENER AND 144" WITH STIFFENER.

4. THE MAXIMUM OVERALL UNIT HEIGHT IS UNLIMITED BY MEANS OF STACKING AND USE OF SPLICED BLADE SUPPORTS. THE MAXIMUM OVERALL UNIT WIDTH IS UNLIMITED BY USE OF MULLIONS.

5. LOUVER CONSTRUCTION: HEAD, SILL, JAMBS, AND BLADES ARE SQUARE CUT AT BOTH ENDS. BLADE SPACING IS 2" MAX. EACH JAMB IS SECURED TO THE SILL WITH (2) SCREWS AND WELDED. BLADES AND HEADS ARE SECURED TO JAMBS WITH (2) SCREWS AND WELDED.

6. ALL WOOD SUBSTRATE SHALL BE G = 0.55 DENSITY OR BETTER.

7. ALL STEEL STUD SUBSTRATE SHALL BE MIN. 14 GA. FY = 50 KSI.

8. ALL STRUCTURAL STEEL SUBSTRATE SHALL BE MIN. 0.075" THICK FY = 36 KSI.

9. ALL CONCRETE SUBSTRATE SHALL BE MIN. 2000 PSI.

10. CONCRETE MASONRY SHALL BE ASTM C90, TYPE II, MIN. 2000 PSI GROUT-FILLED.

11. THE LOUVER MANUFACTURER DOES NOT DETERMINE THE STRUCTURAL INTEGRITY OF THE SUBSTRATE STRUCTURE.


12. THE SYSTEM SHALL ONLY BE INSTALLED IN A LOCATION WHERE THE ENCLOSED AREA/ROOM BEHIND THE LOUVER IS DESIGNED TO DRAIN WATER PENETRATING INTO THE AREA/ROOM, AND THE AREA/ROOM WILL HOUSE WATER RESISTANT/PROOF EQUIPMENT, COMPONENTS, AND/OR SUPPLIES.

13. INSTALLER TO PROVIDE SEPARATION OF DISSIMILAR MATERIALS AS REQUIRED.

PRODUCT REVISED
as complying with the Florida
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By *[Signature]*
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Acceptance No 19-0624-17
Expiration Date 08/05/2019
By *[Signature]*
Miami Dade Product Control

CHANDER R. NANGIA ^{RE}
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AIROLITE The look that works! SCHOFIELD, WISCONSIN 54476 715-359-6171	DRAWN BY M STEELE	DATE 4/27/09	SHEET NO. 16 OF 16	CAD DRAWING NO. K605MD
	SCALE NA	TITLE K605MD LOUVER		
ITEMIZED PART LISTING & GENERAL NOTES				
 MAY 12 2009				
Approved as complying with the Florida Building Code Date 08/05/2009 NOAH 09-0519-15 Miami Dade Product Control Division <i>[Signature]</i> By <i>[Signature]</i>				